



## WO55 EORS System Architecture

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By  
CSRA State and Local Solutions, LLC**



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# 1 INTRODUCTION

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## 1.1 Purpose

This document presents the architecture of the Coordinated Highways Action Response Team (CHART) Emergency Operations Reporting System Version 2 (EORS). The architecture of the EORS system is presented as a number of different “views”, with each view representing a different perspective of the system.

## 1.2 Views Descriptions

Each view is described in Table 1-1. In addition, there are various appendices, described in Table 1-2.

**Table 1-1. EORS Architecture Document Views**

View Name	Description	Typical Stakeholders	Section
Feature List View	Provides a brief high-level overview of EORS and describes the features available in the system	Representatives from other agencies interested in EORS’s capabilities, as well as operators, support personnel, developers, and managers	2
Functional View	Describes basic EORS functionality and some key operational concepts that drove how the functionality has been implemented	Developers, managers and officials from other organizations, looking to interface with or build a system like EORS	3
System View	Shows system components and how they connect to each other	System administrators, software developers and architects and others interested in the system-level architecture	4
Interface View	Describes the EORS external interfaces	Representatives from other agencies interested in EORS’s capabilities, specifically software and system architects who may be looking to interface with EORS	5
Data View	Describes how data moves into, out of, and around the EORS system	Database administrators (DBAs), management, developers, and stakeholders of connected systems	6
Deployment View	Describes the various EORS deployment configurations	Operations & Maintenance personnel, network engineers	7
Subsystem View	Describes EORS software/hardware subsystems and Commercial Off-The-Shelf (COTS) products	Developers, configuration managers, and management	8

<b>View Name</b>	<b>Description</b>	<b>Typical Stakeholders</b>	<b>Section</b>
Standards View	Describes EORS support for mapping interface standards.	MDSHA management, developers, and those looking to interface with EORS for the purpose of consuming/display EORS data.	9
Business Architecture View	Describes EORS from a business process perspective	Business Area Architecture (BAA) process participants, those interested in CHART's business plan and its mapping to EORS's capabilities	10
System Maintenance View	Describes Operations and Maintenance aspects of the EORS system	System administrators, software and system architects, others interested in EORS maintenance tasks	11

**Table 1-2. EORS Architecture Document Appendices**

<b>Appendix</b>	<b>Description</b>
A	Design studies performed during the development of the EORS
B	Database descriptions for the design of the EORS database
C	Release history of EORS

### 1.3 Applicable Documents

Relevant documents associated with the system architecture are listed in the Table 1-3 below.

**Table 1-3. Document References**

Requirements and Vision
EORS ER3B1 Updated Software Requirements Revision 2, September 9, 2008, WO12-RS-001R2

## **2 FEATURE LIST VIEW**

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### **2.1 View Description and Typical Stakeholders**

This view provides a brief high-level overview of the EORS system and describes the features available in the system. This section is suitable for those who would like to have an easy-to-digest list of features EORS provides, such as representatives from other agencies interested in EORS's capabilities, as well as operators, support personnel, developers, and managers just coming in who are new to EORS, or who would like a quick refresher.

### **2.2 EORS Overview**

The EORS system consists of a combined database/application server hosting EORS which provides information to other CHART applications such as the CHART Intranet Map and the public CHARTWeb web site applications (via the CHARTWeb database). There is also a server (known as the iMap server) that serves EORS information (along with other data) to entities that are external to CHART, such as MEMA's Osprey system.

The basic components of the EORS applications include the EORS desktop web application and the EORS SQL Export Jobs that provides information to other applications.

The EORS application runs on Windows Server 2008R2, and utilizes MS SQL Server 2008R2, .NET Framework from version 4.5, DotNetNuke Version 7.

The routine operations of the EORS application include:

- Storm Event Reporting – Provides the ability to manage and report on the utilization of personnel, equipment, materials and conditions for an event.
- Snow Emergency Plans – Provides the method by which snow emergencies are managed for MD counties.
- Event Mapping – Provides the ability to specify conditions of predefined roadway segments.
- Route Restrictions – Provides the ability to manage vehicle restriction information.
- Post Storm Review & Archive – Provides the ability for a shop to add information about a previous storm event.
- Situational Awareness Reporting (SARS)/ Archive – Provides the ability to add event data at the district, EOC, CHART and PIO level. Also provides the ability to generate a summary report of the data entered.
- Emergency Operations Center (EOC) Plans/Archive – Provides the ability to capture CHART, EOC and district level planned activities data. Also provides the ability to generate a report of the data captured.
- EORS Rates – Provides the ability to manage rate data for various data types in EORS such as personnel, materials and equipment.

- Shop RWIS – Provides the ability to assign a primary and secondary RWIS device to each shop for use in gathering weather data in shop reports.
- Event Reporting Reminder – Provides an alerting/reminder system for shop reporting.
- CHARTWeb Messages – Provides an interface to manage messages on the CHARTWeb and CHARTWeb Mobile public web sites.
- Hurricane Preparedness – Provides an interface for planning and tracking responses to hurricanes.
- Reports (34 total)
  - 12 Cost reports – provide costs based upon rates and user provided data
  - 9 OOM Admin reports – provide useful information specifically for the Office of Maintenance management.
  - 12 Storm reports – provide weather operations status reporting
  - EORS Shop Vehicles Report – provides the number and types of certain vehicles deployed for an event
- Administration Tools – provides standard application administrative tools such as user management and page security

## 2.3 Feature List

The complete list of all features supported by EORS is shown below:

- Storm Event Reporting
  - Create new event
  - Edit events
  - Search events
  - Merge events
  - Delete events
  - Enter shop reports
  - View shop report updates
  - Manage materials usage
- Snow Emergency Plans
  - Declare snow emergency plans
  - Lift snow emergency plans
  - Update snow emergency plans
  - Delete snow emergency plans
- Event Mapping
  - Add condition to road segment
- Route Restrictions
  - Add restriction
  - Edit restriction
  - Delete restriction
  - Map restriction (link to external map application)
- Post Storm Review & Archive
  - Specify shop and event
  - Add and save storm review data
- SARS & Archive
  - Sort by event, shop and season
  - Download PDF reports
- EOC Plans
  - Add CHART, EOC, MDTA and district plans
  - Edit CHART, EOC, MDTA and district plans
  - Create Statewide plan in PDF format
- EOC Plans Archive
  - Search plans by date
  - Download PDF EOC plans
- EORS Rates

- Edit shop personnel rates by season
  - Edit shop equipment rates by season
  - Edit shop materials rates by season
- Shop RWIS
  - Assign primary RWIS to shop
  - Assign secondary RWIS to shop
- Event Reporting Reminder
  - Set reminder recipients and copies
  - Set reminder email subject
  - Set reminder open/paused event time limits
  - Set alerts on/off for normal and paused operations
- CHARTWeb Messages
  - Manage CHARTWeb messages
  - Manage CHARTWeb Mobile messages
- Hurricane Preparedness
  - Set preparedness activities by day and district
  - Create Hurricane Preparedness PDF report
- Reports (34 total)
  - 12 Cost reports
    - Generate report by season or date range
    - Filter by location
    - Filter by event type or all
  - 9 OOM Admin reports
    - Filter by season, location, type
  - 12 Storm reports
    - Filter by season, location, type
  - EORS Shop Vehicles Report
    - Generate and export report
- Administration Tools
  - Manage users, passwords and profiles
  - Manage user roles
  - Manage pages and page level permissions
  - Manage site URL and UI skins
  - View exception logs

## **3 FUNCTIONAL VIEW**

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### **3.1 View Description and Typical Stakeholders**

This view into EORS describes basic functionality and some key operational concepts that drove how the system was constructed. This is not a User's Guide or tutorial. Although some design concepts are presented, it does not get to the level of a formal design document. See the EORS User's Guide for additional information. This view is useful for anyone interested in how EORS works at a high level, including developers, SHA management, MDOT management, and officials from other organizations, looking to interface with or build a system like EORS.

### **3.2 Storm Event Reporting**

Storm event reporting provides the ability to create a master storm event that is used to organize winter and non-winter weather event data. Some of this data is entered directly into the application while other data are retrieved from external applications/databases. In general, a master event is created for a weather event and SHA/MDTA shop locations provide reports on the utilization of personnel, equipment and resources along with other related data.

The EORS application provides the ability for shop managers to create, edit, and search master events while application administrators are provided with additional tools for merging and deleting master events. Shop users are limited to creating, and viewing shop reports and managing materials data.

### **3.3 Snow Emergency Plans**

Snow Emergency Plans are declared by the Maryland State Police (MSP) by county in Maryland. The EORS application provides the ability to declare, lift, update and delete snow emergency plans. EORS also provides the ability to enter a text description of snow emergency exceptions.

### **3.4 Event Mapping**

Event Mapping provides the ability to select predefined roadway segments and assign a known road condition such as Wet, Isolated Coverage, Overall Coverage, Restricted Lanes and Ice. These conditions

### **3.5 Route Restrictions**

Route Restrictions provides the ability to add, edit, delete and map commercial vehicle restrictions by location.

### **3.6 Post Storm Review & Archive**

Post Storm Review provides the ability for a shop to enter and save data that describes the environmental conditions, materials, and other metrics for a shop event.

## **3.7 SARS & Archive**

Situational Awareness Reports provides EOC, CHART, PIO, MDTA and SHA districts with the ability to provide event summary data and to create PDF reports of that data.

## **3.8 EOC Plans**

EOC Plans provide the ability for MDTA, CHART and district shops to provide information regarding planned activities related to storm events and to generate a report of those plans along with relevant weather data.

## **3.9 EORS Rates**

EORS Rates provides the ability to add and update rate information for shop personnel, shop equipment and shop materials used in various cost related reports.

## **3.10 Shop RWIS**

Shop RWIS provides the ability to associate a primary and a backup (secondary) RWIS device to a shop. Shop reports will incorporate atmospheric weather data with the data received from the associated RWIS devices.

## **3.11 Event Reporting Reminder**

Event Reporting Reminder provides a reminder/alerting capability so send reminder emails for shop reports that have not been modified for a certain period of time.

## **3.12 CHARTWeb Messages**

CHARTWeb Messages provides the ability to manage text messages that appear on CHARTWeb and CHARTWeb Mobile.

## **3.13 Hurricane Preparedness**

Hurricane Preparedness provides the ability to enter and maintain data related to hurricane preparedness that is organized under a master event and expected landfall date.

## **3.14 Reports (34 total)**

The EORS application contains 34 individual reports that provide configurable input parameters and multiple export options such as PDF, Word, HTML, RTF and text. Reports provided include

- 12 Cost reports providing near real-time storm costs
- 9 OOM Admin reports for various storm event data types
- 12 Storm reports providing near real-time updates for personnel, equipment and materials as well as other activities.
- EORS Shop Vehicles Report that provide the amount of downed equipment in an event.

## 4 SYSTEM VIEW

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### 4.1 View Description and Typical Stakeholders

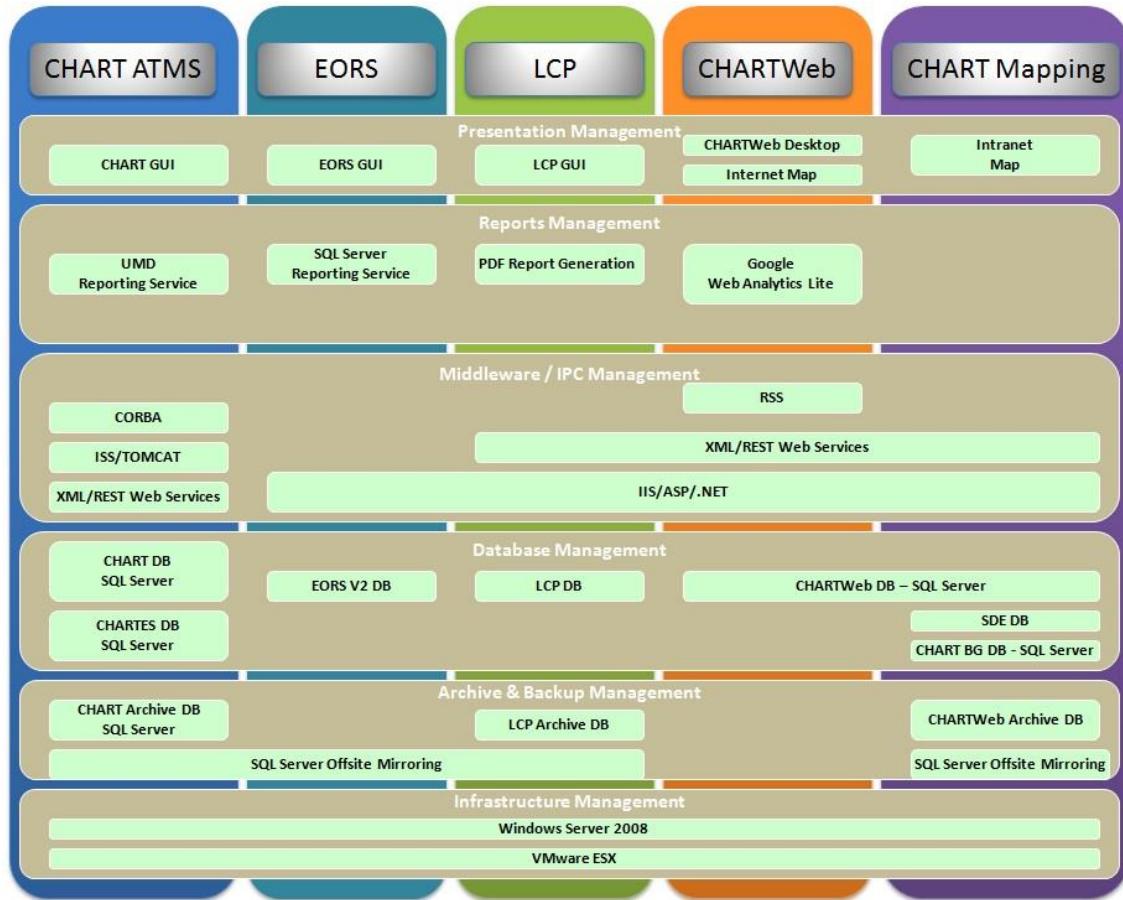
The System View describes what the EORS hardware components are, how they are configured, what they support, and how they connect to each other. This view focuses on the internal structure of the system and its components (the view from within), whereas the Interface View focuses on external interfaces (the view from outside). This view will be of primary use to system administrators, software developers and architects and others interested in the system-level architecture.

### 4.2 System Overview

#### 4.2.1 CHART Description

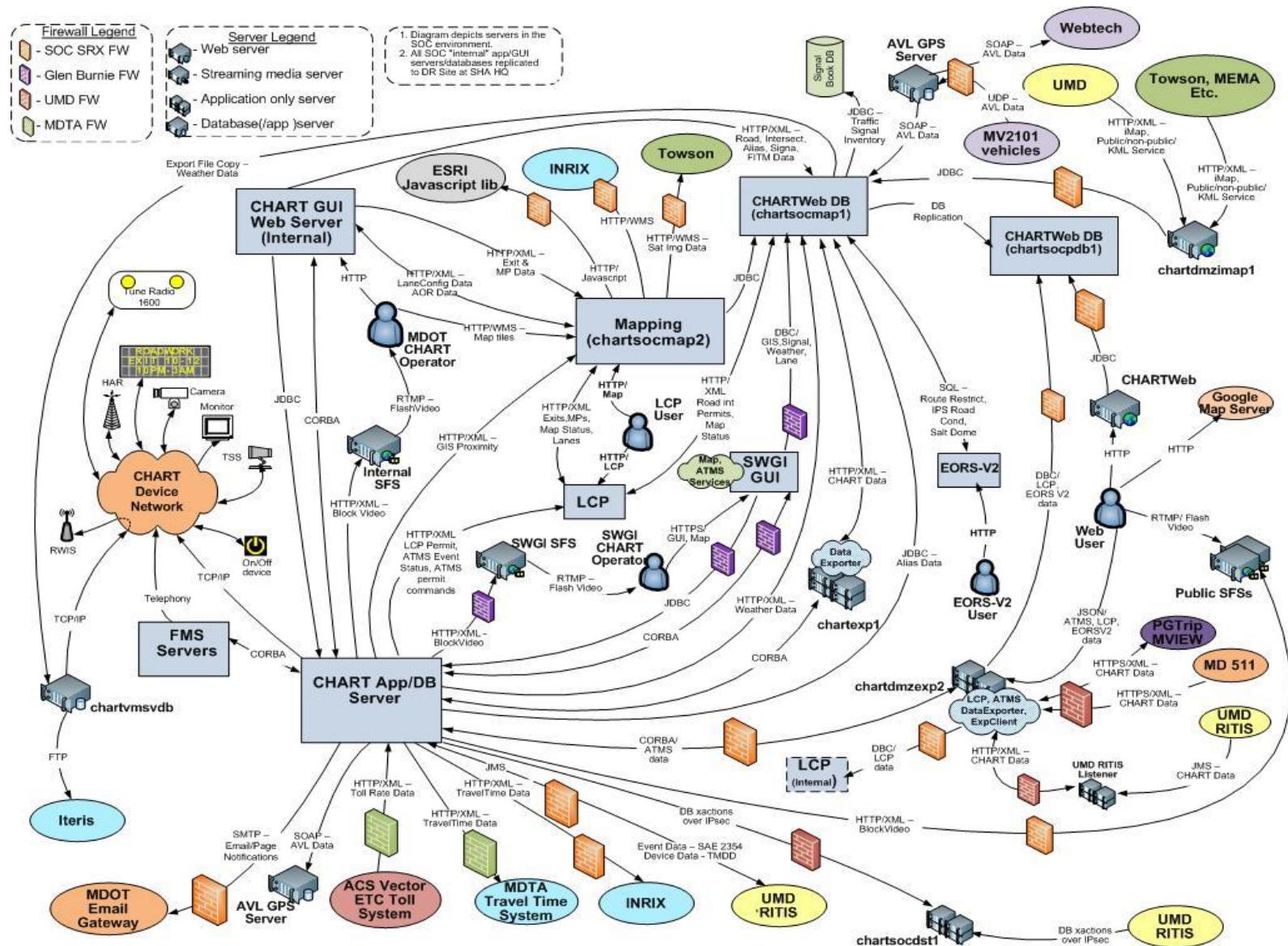
Figure 4-1 presents an overview of the CHART Program Architecture organized according to the Enterprise Architecture Framework as defined by the National Institute of Standards and Technology and how the EORS application fits within it. This approach gives a holistic view of the enterprise and is organized into 5 layers:

- Enterprise Business Architecture Layer
- Enterprise Information Architecture Layer
- Enterprise Application Architecture Layer
- Enterprise Application Integration Architecture Layer
- Enterprise Infrastructure Architecture Layer

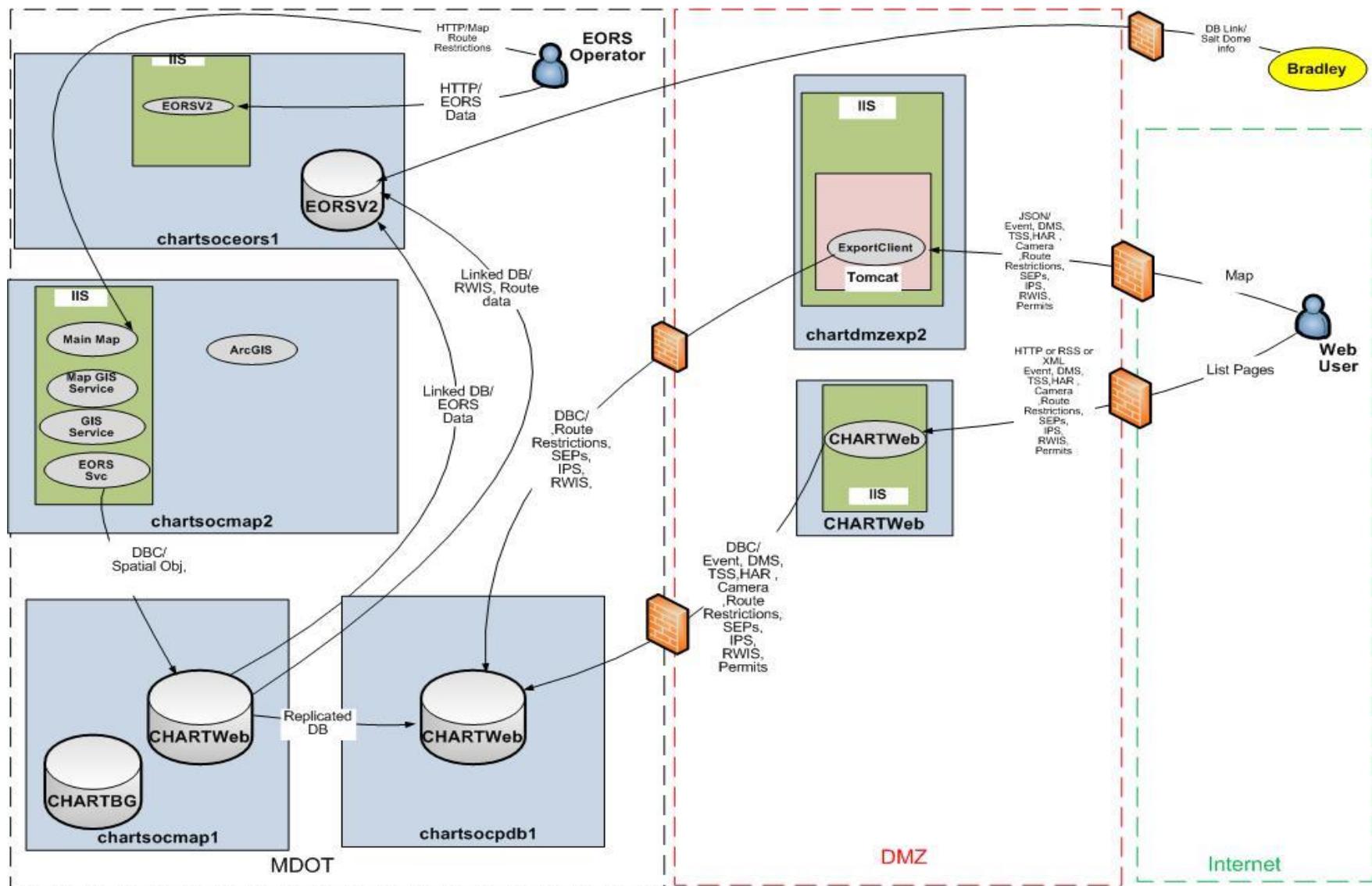


**Figure 4-1. CHART Architectural Overview**

The next two diagrams show various views of the CHART system architecture and how EORS fits within it. Figure 4-2 presents a high-level connection oriented architecture diagram showing how all of the internal and external systems connect to each other. Figure 4-3 presents a more detailed view of the components specific to the EORS System.



**Figure 4-2. High Level CHART Systems Architecture**



**Figure 4-3. EORS Detailed System Architecture (connect oriented)**

## 4.3 Software components

### 4.3.1 Software CIs

There are 2 software CIs comprising the EORS system.

**EORS Desktop Web Application** – This CI consists of the web based user interface used by MDSHA and MDTA personnel to access to various EORS modules.

**Database Instances** – This CI consists of the EORS database and SQL Server Reporting Services (SSRS). This database and SSRS are accessed only through the EORS Desktop Web Application.

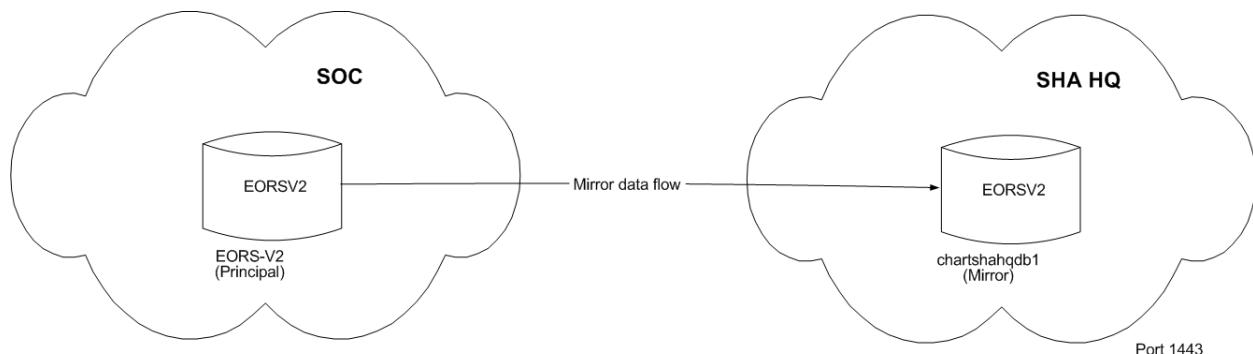
### 4.3.2 Communications

#### 4.3.2.1 Database communications

External applications including the CHART Intranet Map and CHARTWeb web site access EORS data from the CHARTWeb database which is populated via a SQL Server job.

## 4.4 Database

The overall EORS database architecture is shown in Figure 4-4.



**Figure 4-4. EORS Database Architecture**

The EORS database is mirrored to SHA Headquarters. The mirror database is used for disaster recovery scenarios.

### 4.4.1 Archiving

The data in the EORS is stored indefinitely and used as an access point to historical permits and related reports.

### 4.4.2 Mirroring

The EORS database mirrored from the Principal location at the MDOT Glen Burnie Data Center (GB-DC) to the Mirror location at SHA Headquarters (HQ). This provides a duplicate copy of the database at SHA Headquarters, to be used by EORS services running at the SHA Headquarters failover site. This service is not running routinely. Before they can run, the mirrored databases at SHA Headquarters must be set to be Principal.

## **4.5 Hardware components**

This section presents the hardware CIs that make up the EORS application. Each hardware CI is described and a list of major components is provided.

### **4.5.1 Hardware CIs**

There is one hardware CIs for the EORS application.

**EORS Application Server** – Supports the EORS web based application. Also includes the database server.

### **4.5.2 EORS Application Server Description**

The EORS application server system supports the EORS software CIs. This system consists of a server along with associated storage array and network connection devices. This system is currently deployed in a virtual environment at the GB-DC. The EORS application server is also deployed and on an identical backup at SHA Headquarters in Baltimore.

The EORS Application Server system configuration is:

Intel XEON X5650 2 processor 2.67 GHz

8 GB Total SDRAM

130 GB C drive; 300 GB D: drive

DVD Drive

Gigabit NIC card

# 5 INTERFACE VIEW

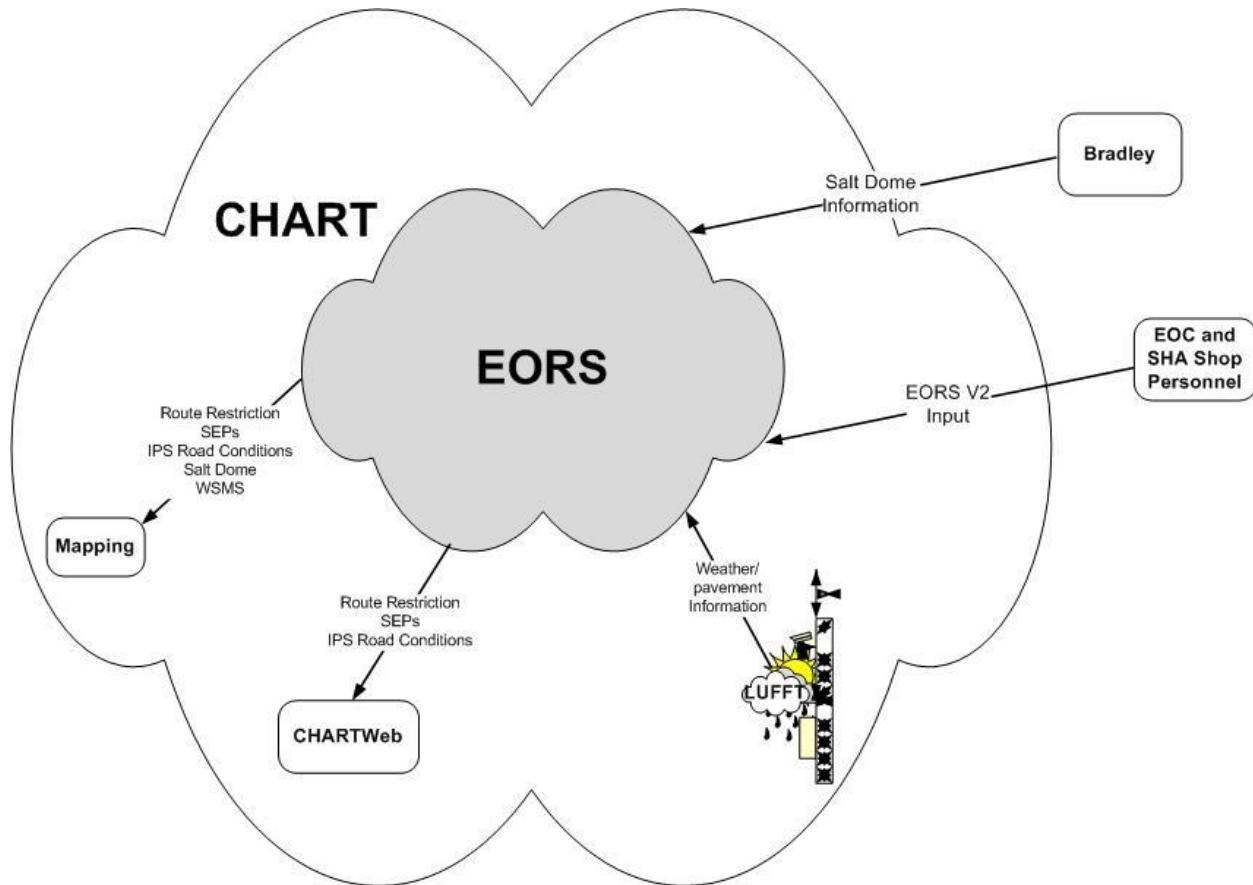
## 5.1 View Description and Typical Stakeholders

The Interface view describes connections to systems and users outside of EORS. EORS has external interfaces to provide data to external entities that may then re-package the information for presentation to their end-users.

Typical stakeholders of this section are representatives from other agencies interested in EORS's capabilities, specifically software and system architects who may be looking to interface with EORS.

## 5.2 External Interfaces

Figure 5-1 shows the external interfaces to the EORS application.



**Figure 5-1. EORS External Interfaces**

EORS's external interfaces consist of:

**CHARTWeb** – This public-facing site displays EORS Data obtained via the CHARTWeb database.

**CHART Mapping** – EORS provides data to the CHART Mapping application via the CHARTWeb database.

**Lufft** – EORS gets weather and pavement information from the Lufft system.

# **6 DATA VIEW**

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## **6.1 View Description and Typical Stakeholders**

This view into EORS shows how data move into, out of, and around EORS and describes at a high level how EORS data is stored in the operational databases associated with the EORS application. This view is useful for EORS DBAs, management, developers, and stakeholders affiliated with the various systems with which the LCP application interfaces.

## **6.2 Data Flow**

Data flows for the EORS application are illustrated in Figures 6-1 and 6-2.

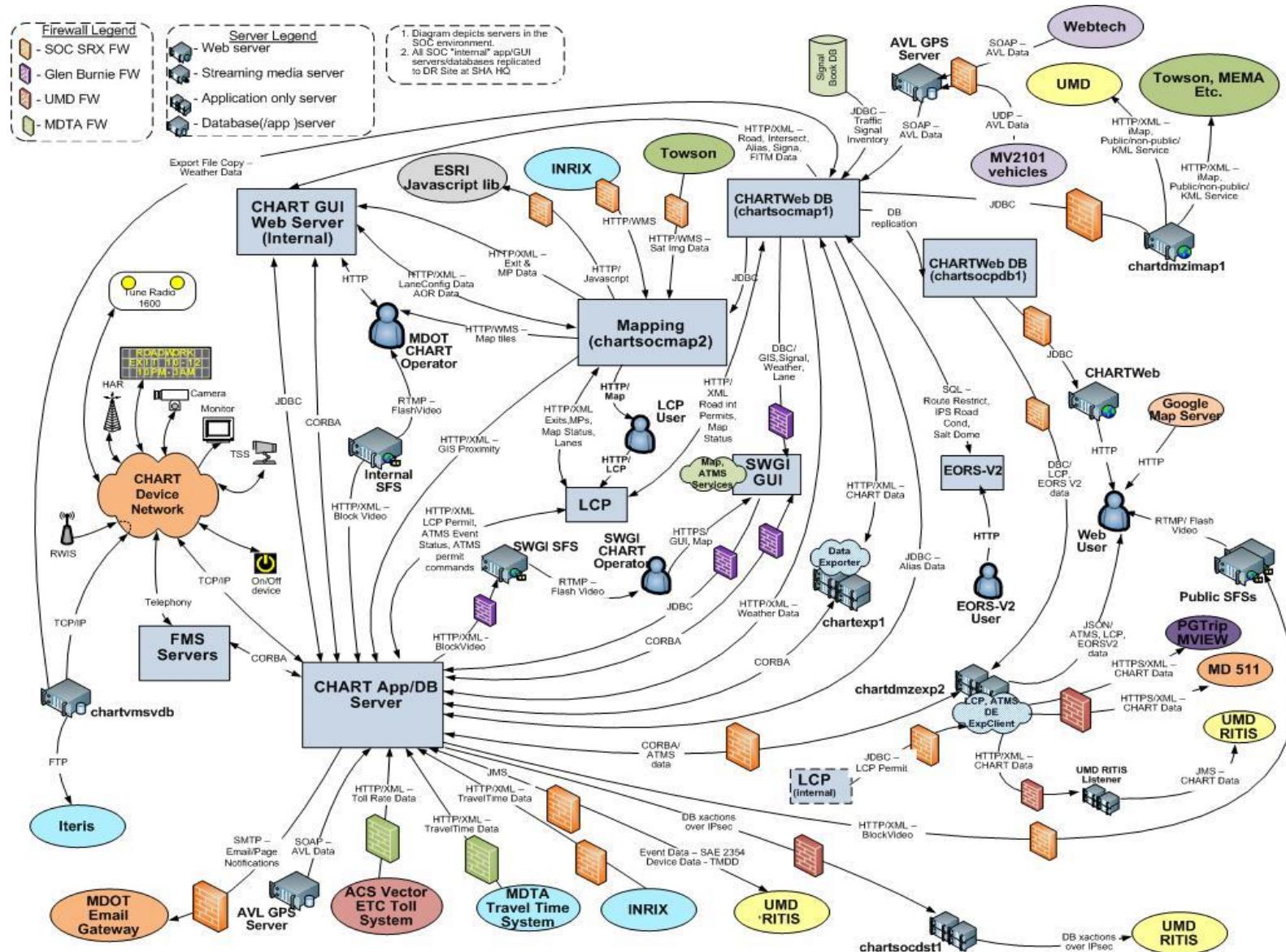
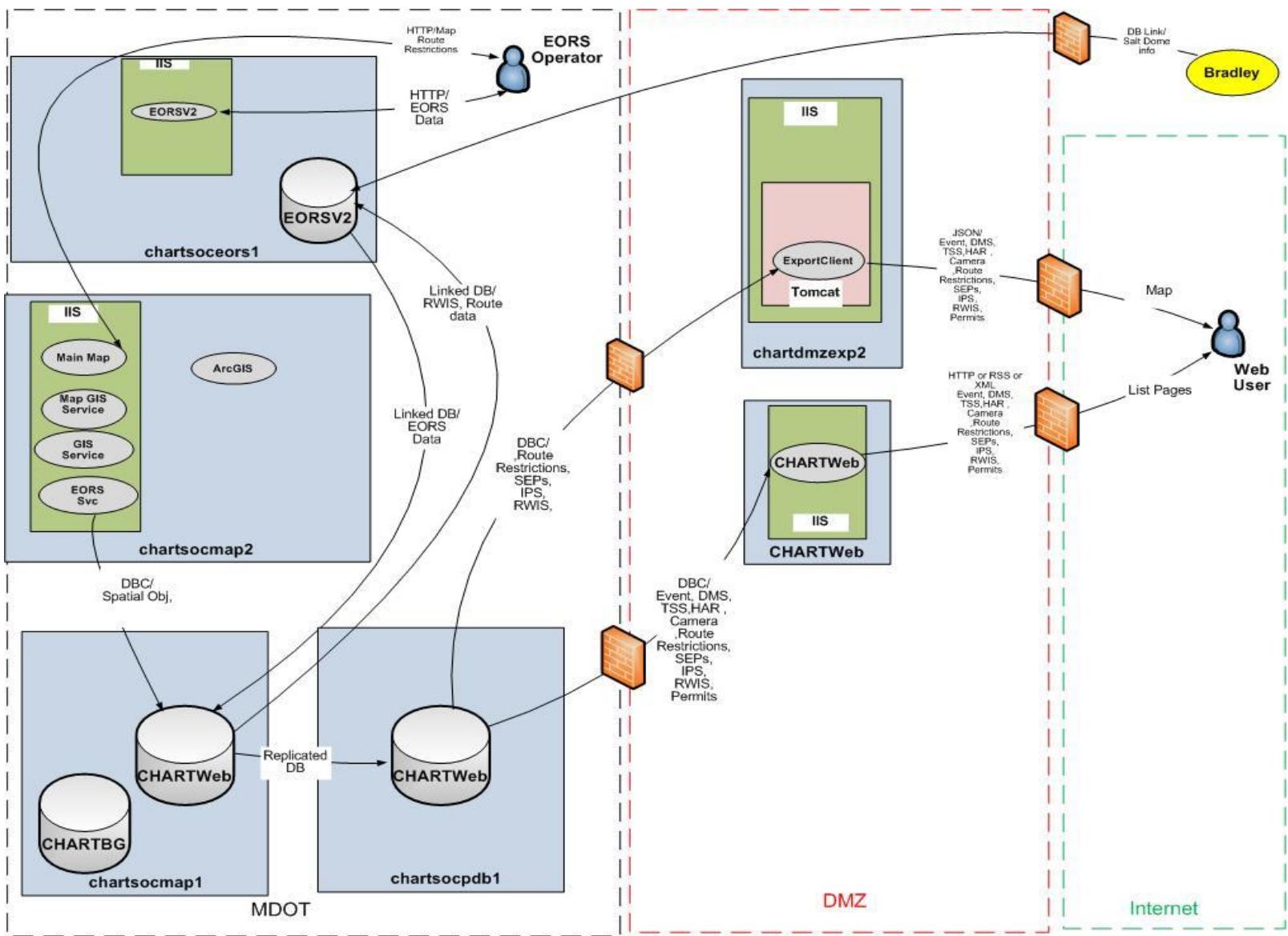


Figure 6-1. CHART High Level Data Flow



**Figure 6-2. EORS Detailed Data Flow**



## **6.3 Database**

This section describes the EORS operational database design, at a high level. The database has static and dynamic data, multiple views, stored procedures, functions, database links, and jobs to copy data. The database design consists of these major areas:

- Core DNN framework
- EORS module data
- EORS reporting services

### **6.3.1 Core DNN framework**

The core DNN framework data design provides the primary capabilities of the application. This data in the core framework describes the configuration of all pages, module and application settings for the application as well as all required security tokens.

### **6.3.2 EORS module data**

Each module within the EORS application is packaged into a self contained archive consisting of source code and database scripts. Each of these modules will contain relevant database entities that are specific to that module as well as configuration data for the module. These modules include:

- Storm Event Reporting
- Snow Emergency Plans
- Event Mapping
- Route Restrictions
- Post Storm Review & Archive
- Situational Awareness Reporting (SARS)/ Archive
- Emergency Operations Center (EOC) Plans/Archive
- EORS Rates
- Shop RWIS
- Event Reporting Reminder
- Hurricane Preparedness

### **6.3.3 EORS reporting services**

The EORS reporting modules run on Microsoft SQL Server Reporting Services. Each module contains the custom SQL needed to provide the data for that report.

## 7 DEPLOYMENT VIEW

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### 7.1 View Description and Typical Stakeholders

The deployment view describes the physical locations of servers and services. This view is useful for Operations and Maintenance personnel to identify relationships within and between servers. Network engineers may be particularly interested when identifying which protocols are expected between any pair of servers in the system.

### 7.2 Deployment Configurations

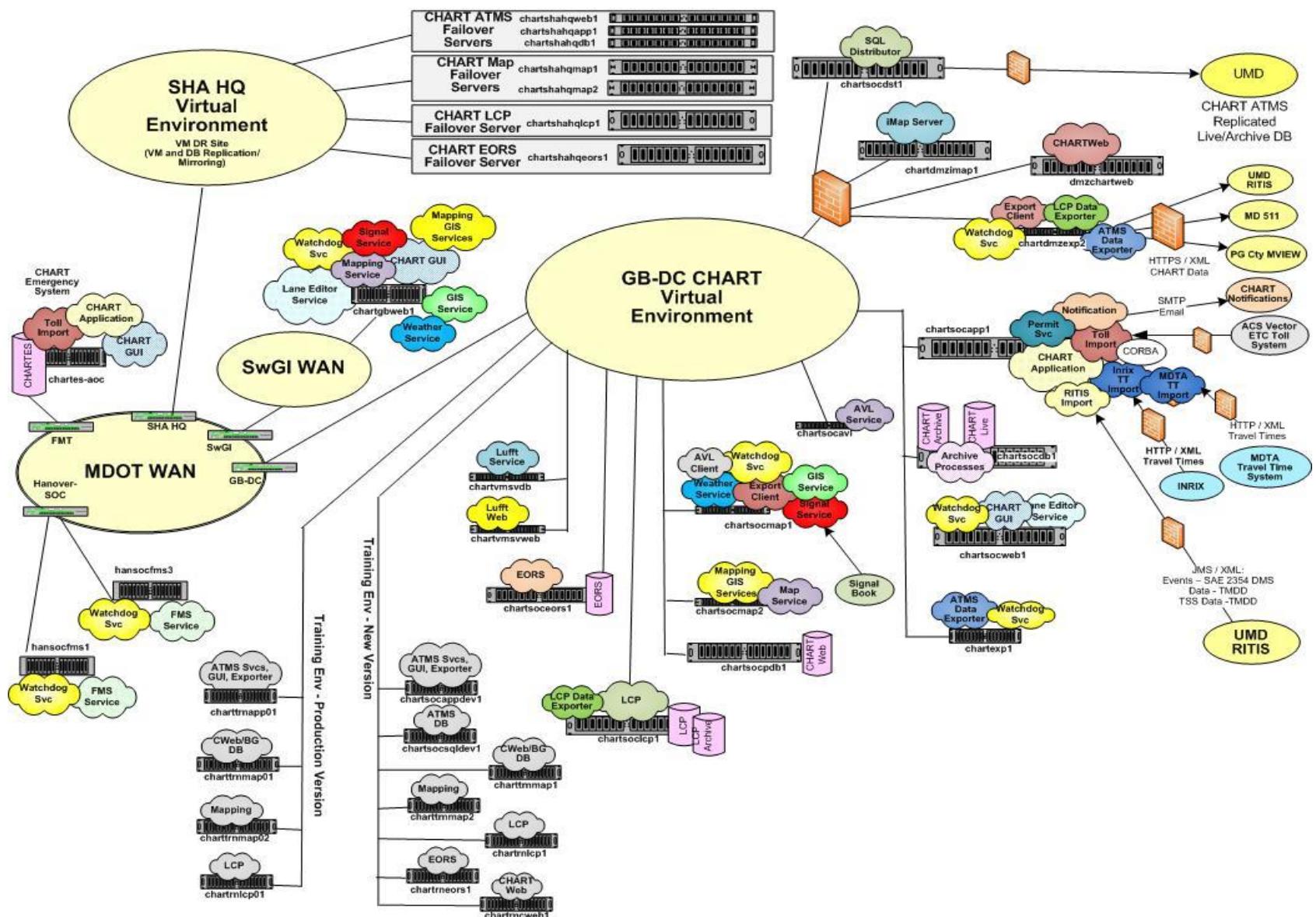
The nominal EORS software service configuration is shown in the table below. Under normal conditions the primary server executes all EORS services.

**Table 7-1. EORS Deployed Services Per Site**

<b>Site</b>	<b>Server</b>	<b>Purpose</b>	<b>Service Name</b>
GB-DC	EORS	EORS Database	SQL Server(MSSQLSERVER)
		EORS Application	World Wide Web Publishing Service

### **7.3 EORS Network/Deployment Diagram**

Figure 7-1 shows the network diagram for CHART, including EORS.



**Figure 7-1. CHART Server Deployment**

## **7.4 Facilities**

This section presents the recommended deployment of hardware at each facility.

### **7.4.1 Node Sites**

The EORS database and application server is located at the MDOT Glen Burnie Data Center (GB-DC). The GB-DC houses the CHART virtual environment and is the central site for the coordination of CHART activities. The list below describes the equipment to be deployed

1. MDOT Glen Burnie Data Center (GB-DC) –  
Virtualized EORS application/database server
2. SHA Headquarters  
Virtualized EORS application/database server

## **7.5 Virtualized CHART Mapping SQL Server database serverSystem Management and Support**

This section discusses CHART system management activities and support provided for system monitoring and problem tracking.

### **7.5.1 Data Backup and Recovery**

vRanger is used to create snapshots of the virtual machines then copies them to the failover site (Baltimore SHA HQ). The procedures responsible for performing the backups run automatically and require only periodic checks from EORS personnel to verify correct operation.

The system architecture and design minimizes the likelihood of having to recover an entire disk volume. The use of RAID 1 and RAID 5 arrays means that the system can perform self recovery in most instances. A more likely scenario would be the recovery of data due to corruption of some type. By taking periodic snapshots of the mission critical data and maintaining the Virtual Machine (VM) snapshots for a reasonable period of time a corrupted file could be restored to its last uncorrupted state.

### **7.5.2 System Monitoring**

Transportation Business Unit (TBU) personnel monitor EORS server performance using Veeam ONE.

### **7.5.3 Problem Identification and Tracking**

The CHART project uses the problem tracking tool JIRA to support CHART system problem reporting and tracking. Problems discovered prior to delivery of a release to operations are handled as described in “CHART Project Standards and Procedures, Configuration Change Request, Revision 0.2, 02/12/2012”. Problems discovered in production are handled as described in the same document. Although the CHART Program has switched issue tracking systems, from IBM/Rational ClearQuest to MantisBT to JIRA, the essence of the workflow described in this document is generally unchanged.

Problems discovered by operations personnel are logged by TBU or NOC personnel in the NOC's Maximo system. Problems determined to be EORS software problems are documented in Jira for tracking and resolution.

## **8 SUBSYSTEM VIEW**

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### **8.1 View Description and Typical Stakeholders**

The Subsystem View describes the subsystems of the EORS application, their purpose, and how they are used. It describes all the COTS used in the system, and the source, version, usage, and redistributability of all the COTS. This view will be of primary use to developers, configuration managers, and management of CHART.

### **8.2 Software Subsystems**

Table 8-1 lists each software and hardware Configuration Item (CI) and the subsystems comprising the CI. The sections that follow provide functional descriptions for each CI.

EORS is dependent upon network services provided through the MDOT backbone network. The management and control of the network is outside the scope of this document.

**Table 8-1. EORS Configuration Items and Subsystems**

CI Name	Subsystems
EORS Web Application	World Wide Web Publishing Service (IIS)
EORS Map UI (via Intranet Map)	World Wide Web Publishing Service (IIS)
Operational Database Instance	EORS Operational DB
COTS	.NET framework 4.5 Microsoft Visual Studio Ultimate 2013 Microsoft SQL Server Microsoft Windows Subversion Subversion browser TortoiseSVN

## **8.2.1 EORS Web Application**

The software services comprising the EORS Web Application Services CI are briefly described below.

### **8.2.1.1 World Wide Web Publishing Service**

This service is used to provide the ASP.NET MVC services that support the EORS Web Application.

## **8.2.2 Database Instance Subsystems**

There is only one software subsystem comprising the Database Instance CI. This subsystem is briefly described below.

### **8.2.2.1 Operational DB**

This subsystem comprises the live Microsoft SQL Server databases used by EORS. The EORS database stores all EORS related operational data.

#### **8.2.2.1.1 Query**

This subsystem provides the ability to query the database, for purposes of examining the database and manipulating data in the database, from a program perspective and via the SQL Management Studio, and also, not formally part of the EORS application.

## **8.2.3 COTS**

The COTS CI collects all COTS packages into a single CI for configuration control purposes. This CI is used to track the COTS packages and versions used. Rather than list each subsystem

in paragraphs, the COTS packages used throughout the system are described in Table 8-2 below. Package redistributability is designated as Open source, Free (freely available, but without source), or Proprietary (purchased or otherwise restricted). Usage is listed as Development, Runtime, both Development and Runtime, or Administrative. For COTS that is both Development and Runtime, the predominant usage, if that makes sense, is listed first. Administrative usage is listed when the product is not required to build the system, even if the product is a key part of the development effort, such as Microsoft Visual Studio, which developers use extensively.

**Table 8-2. COTS Packages**

<b>Product Name</b>	<b>Version</b>	<b>Description/Purpose</b>	<b>Redistributability</b>	<b>Usage</b>
Jira	6.4.11	The CHART Program uses Jira for tracking problem reports (PRs) as well as managing software requirements and design	Proprietary	Administrative
Microsoft SQL Server	2008 R2	EORS uses Microsoft SQL Server 2008 to host its databases.	Proprietary	Runtime
Microsoft Visual Studio (including .NET 4.5)	2013 Ultimate	EORS uses Microsoft Visual Studio 2013 Ultimate for C# source code development. Necessary library files are used in the runtime environment.	Proprietary	Development Runtime
Microsoft Windows	2008 Server	EORS uses Microsoft Windows 2008 Server as its standard runtime platform for the EORS application/database servers.	Proprietary	Runtime
RedGate SQL Backup Pro	6	EORS uses these parts of the RedGate DBA Bundle monitoring tools to support the backup and restore processes and to monitor database performance	Proprietary	Runtime
RedGate SQL Monitor	2.3.0			
Subversion	1.6	EORS uses Apache Subversion for source code control.	Open source	Development
Subversion browser TortoiseSVN	1.6.15	Official EORS builds use TortoiseSVN subversion browser. Some developers may use TortoiseSVN as well.	Open source	Development
vRanger Backup & Replication	5.3.1	The CHART Program uses vRanger Backup & Replication by Quest Software to maintain system backups. This subsystem is not part of the EORS per se, but serves in a support role. Therefore it is listed as having Administrative usage, rather than Runtime usage.	Proprietary	Administrative

## **9 Future EORS Releases**

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Though future updates to EORS are expected there are no formally planned releases at this time. Future capabilities of the EORS application include enhanced ability to track salt usage as well as possible geospatial additions.

# **10 SYSTEM MAINTENANCE VIEW**

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## **10.1 View Description and Typical Stakeholders**

This section provides a view into the high level EORS maintenance tasks. This includes system maintenance (including backup and recovery), database maintenance, and routine software maintenance. The EORS Operations and Maintenance Guide contains detailed information on these routine maintenance tasks. Interested stakeholders would be system administrators, software and system architects, and any other parties interested in a high level view of maintenance tasks for EORS.

## **10.2 Data Backup and Recovery**

Data backup and recovery are implemented at both the system level and the database level. Database level backups are needed in order to guarantee transactional integrity and to prevent database backup corruption.

### **10.2.1 Data Backup**

#### ***10.2.1.1 Virtual Environment***

Procedures for backing up the virtual environment are not covered in the EORS Operations and Maintenance Guide. These tasks are performed by Transportation Business Unit (TBU) personnel following procedures maintained by TBU staff. Most of these procedures can be found in the CHART Virtualization Operations and Maintenance Guide.

The ability to “snapshot” a virtual server provides the ability to roll back a server to a previous state should an issue occur with that server, and simplifies maintenance and administration by allowing patches and upgrades to be easily and quickly backed out if necessary.

Full image snapshots are taken nightly and copied to an offsite location at SHA Headquarters (HQ) in Baltimore. Included in these snapshots are local snapshots with file and image-level restore functionality.

#### ***10.2.1.2 Database***

Database backup tasks and the procedures for executing those tasks are detailed in the EORS Operations and Maintenance Guide. Backup jobs are run using the SQL Backup tool by Redgate. Those tasks include:

- Full database backup
- Transactional database backup
- Differential backup

### **10.2.2 Data Recovery**

#### ***10.2.2.1 Virtual environment***

The site at SHA HQ exists as a redundant and disaster recovery capable location where individual pieces or the entire suite of CHART applications (CHART ATMS, CHART Mapping,

EORS, etc.) can exist if necessary. All CHART servers may be instantiated at SHA HQ, including both the EORS server and other servers within the CHART enterprise, including a number of applications that EORS interfaces with. Should a full site recovery at SHA HQ be necessary, all non-database data would be recovered within a datastore replication window. For EORS, all relevant data is stored in the database and the database recovery process is executed as an additional step after servers have been instantiated at SHA HQ.

#### **10.2.2.2 Database**

Database recovery can be accomplished through these mechanisms as detailed in the EORS Operations and Maintenance Guide:

- Recovering database backup
- Recovering mirrored database from SHA HQ
- Utilizing mirrored database at SHA HQ

### **10.3 System Monitoring**

Cern Virtual Infrastructure (CVI) administrators will access the environment through a variety of tools, depending upon the task and required method of access.

#### **10.3.1 Virtual environment**

The vSphere Web Client provides the most comprehensive access to the VMware environment, allowing administrators to add, delete, modify, move, and monitor the physical and virtual machines. “Console” access is granted through this tool, as well as providing basic monitoring and environmental health visible through the client. A traditional “thick” client may be downloaded via web browser using the address of the vCenter server, one of the individual hosts, or from [www.vmware.com](http://www.vmware.com).

A Secure Shell (SSH) client, such as Putty, may be used for access into the root console of the VMware hosts for administration or maintenance that is not available within the vSphere Client. This typically is used for application of hotfixes and upgrades to the physical hosts, detailed log viewing, or high-level administrator activities.

Veeam provides monitoring capabilities with limited access to virtual machines and physical hosts. Veeam is accessed via web browser through a specific port for both monitoring and configuration. Veeam is used to monitor CPU usage, memory usage, disk usage, and I/O statistics, etc. Veeam can generate alarms and notifications based on defined thresholds.

Integrated Lights-Out (iLO) provides access to the HP hardware, which can be managed from the Blade Enclosure management connection, or from a web browser pointed to the correct IP address. In addition, hardware can be managed from a Liquid Crystal Display (LCD) screen on the front of the blade enclosure, directly connecting into the blade via a dongle connection, or through keyboard-video-mouse (KVM) switch connection to the Storage Area Network (SAN) or Blade hardware.

### **10.3.2 Database**

Database backup jobs are monitored using Red Gate SQL Backup tools. These tasks are detailed in the EORS Operations and Maintenance Guide. Specific tasks include:

- Observing last backup run time and status
- Check of physical file backup on the appropriate server

The database mirroring process is also monitored using Red Gate tools. These procedures also are described in detail in the EORS Operations and Maintenance Guide.

## **10.4 High Availability**

The CHART system design provides high availability through these methods.

- Redundancy within virtual environment
- Redundancy of communications paths
- Database mirroring
- Offsite backup capabilities for EORS and the entire virtual environment

Each of these methods will be discussed in more detail below.

### **10.4.1 Redundancy within the Virtual Environment**

The CHART Virtual Infrastructure provides redundancy through the implementation of a cluster of hardware and software packages.

The CHART Virtual Infrastructure provides redundancy through the implementation of a cluster of hardware and software packages.

Storage is provided by a SAN cluster with redundant network connections accessible by all devices. This storage is replicated regularly to the SHA HQ site. The current configuration allows several individual component failures within the SAN without loss of data or the need to fail over, as well as the ability to perform file-level recovery and full image restoration if needed.

Hardware hosting the virtual servers provides protection against data and service loss with several components having 100% redundancy. For instance, the “Flex 10 networking modules” are completely redundant. The physical hosts themselves can tolerate the loss of 1/3 of the available physical hosts and still maintain full capabilities when the impacted virtual hosts are moved to the remaining physical host(s).

Network and power redundancy are also at 100% with the ability to lose a full network or power feed without adversely affecting the environment.

VM Application and hardware configuration provides automatic failover of many components, including the ability to distribute resources, re-locate virtual servers on demand, take snapshots of servers prior to updates/upgrades, etc.

#### **10.4.2**

#### **Redundancy of Communications Paths**

There are redundant or backup communications paths for the CHART Backbone network traffic.

#### **10.4.3**

#### **Database Mirroring**

SQL Server mirroring has been established between the databases at the principal node at the MDOT Glen Burnie Data Center and mirror node at the SHA HQ data center. The EORSV2 operational database is mirrored. Two identically configured servers reside at each of the nodes from both a hardware (virtual) and software perspective.

As database transactions are committed in the principal node these transactions are copied over to the mirror node. The copying happens in real time and the data is in a synchronized state between the nodes. The level of synchronization can be set to be either dual commit or single commit mode. In a dual commit mode the database transaction is written to both nodes and only then will the relevant locks be released. In a single commit synchronization mode, transactions are committed at the principal node and locks are released. As a follow-on action these transactions are forwarded to the mirror node.

The EORSV2 database is configured in a single commit synchronization mode. In a future release, the EORSV2 application could be modified to take advantage of automatic failover, in which case the dual commit synchronization mode with automatic failover could be used.

In case of a database failure at the principal node, the EORSV2 database will be manually failed over to the mirrored node. A pre-configured EORS application installation exists at the mirrored node to point to the mirrored database. This allows failover to a secondary site in minimal time as the data will be copied in real time to the secondary site

#### **10.4.4**

#### **Offsite Backup Capabilities for the Virtual Environment**

Full image snapshots are taken nightly and copied to the SHA HQ location in Baltimore. Included in these snapshots are local snapshots with file and image-level restore functionality.

The site at SHA HQ exists as a redundant and disaster recovery capable location where individual pieces or the entire CHART system can exist if necessary. Currently, the entire CHART network at the MDOT Glen Burnie data Center (GB-DC) can be failed over to SHA HQ. Details are provided in the CHART Virtualization Operations and Maintenance Guide. It is also possible for just EORS to be run at SHA HQ, although there are few if any scenarios where this would be beneficial.

Details of the EORS manual failover procedure can be found in the EORS Operations and Maintenance Guide.

Additional details on EORS failover to SHA HQ can also be found in the EORS Application Recovery Plan.

### **10.5 EORS Administrator Maintenance Tasks**

There are no routine user maintenance tasks associated with EORS.

## **10.6 Software Distribution**

This section presents the procedures and processes used to control and manage the development and distribution of the EORS software.

### **10.6.1 Configuration Management and Version Control**

The overall Configuration Management (CM) plan for CHART is presented in the document “CHART Configuration Management Plan, PM-PL-004 R6, July 2015.” The specific objectives of the CHART CM program are to ensure that:

CHART hardware, software, and data configuration items (CIs) are appropriately selected and identified

CHART project baselines are established at the correct time

Changes to the CHART baselines are authorized, evaluated, implemented as approved, verified, and tracked in accordance with established procedures

Commercial off-the-shelf (COTS) tool upgrades are fully assessed and their impact evaluated

The status of CHART baselines and proposed and approved changes is accounted for and reported

Baseline and other required CM audits are carried out and the results reported

The integrity of the system design is maintained

The delivered system and all accompanying deliverables are accurately defined and described

The EORS development team is using Subversion as the configuration management tool to support EORS software development. The configuration management policies and procedures for the EORS software are defined in a set of standards and procedures documents. These standards and procedures documents are listed below.

CHART Project Standards and Procedures, Configuration Change Request, Revision 0.2, 02/12/2012

### **10.6.2 Software Installation**

The installation of new versions of EORS software components is controlled as described in the CHART Configuration Management Plan. The detailed plan for executing the installation is contained in the EORS Implementation Plan that is customized for each EORS software release. For new site installations the software components are installed and configured prior to integration of the system into the operational environment. Appendix A of the EORS Operations and Maintenance Guide presents instructions for performing software installations on operational system components. This includes installation of both COTS and of the EORS software proper.

## **10.7 Training**

Training of CHART operations staff in the use of the EORS is provided via several means.

EORS can be installed in a training environment where users can operate the system without interfering with production.

A training plan is developed for each EORS software release. Training sessions are conducted by MDSHA at their discretion.



## LIST OF ACRONYMS

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The following table lists the acronyms used in the document.

<b>Acronym</b>	<b>Description</b>
AOC	Authority Operations Center
API	Applications Programming Interface
ATMS	Advanced Traffic Management System
AVL	Automatic Vehicle Location
BAA	Business Area Architecture
BHT	Baltimore Harbor Tunnel
CATT	Center for Advanced Transportation Technology
CCTV	Closed Circuit Television
CHART	Coordinated Highways Action Response Team
CM	Configuration Management
COTS	Commercial Off-The-Shelf
CVI	Cern Virtual Infrastructure
DB	Database
DBA	Database Administrator
DCDOT	District of Columbia Department of Transportation
EORS	Emergency Operations Reporting System
ER	Entity Relationship
ERD	Entity Relationship Diagram
FC	Fibre Channel
FMT	Fort McHenry Tunnel
FSK	Francis Scott Key [Bridge]
GB-DC	MDOT Glen Burnie Data Center
GUI	Graphical User Interface
HA	High Availability
HISD	Highway Information Services Division
HP	Hewlett-Packard
HQ	Headquarters
HTTP	Hyper Text Transfer Protocol
HTTPS	Hyper Text Transfer Protocol Secure

<b>Acronym</b>	<b>Description</b>
I	Interstate
ICD	Interface Control Document
iLO	Integrated Lights-Out
IP	Internet Protocol
iSCSI	Internet Small Computer System Interface
JSON	JavaScript Object Notation
KVM	Keyboard-Video-Mouse [Switch]
LCD	Liquid Crystal Display
LCP	Lane Closure Permits
MD	Maryland
MD511	Maryland 511 (Maryland's 511 Traffic information System)
MDOT	Maryland Department of Transportation
MDSHA	Maryland State Highway Administration
MDTA	Maryland Transportation Authority
NOC	Network Operations Center
PR	Problem Report
REST	Representational State Transfer
RITIS	Regional Integrated Transportation Information System
RSS	Really Simple Syndication
RTMS	Remote Traffic Microwave Sensor
SAN	Storage Area Network
SCSI	Small Computer System Interface
SHA	State Highway Administration
SOC	Statewide Operations Center
SOP	Standard Operating Procedure(s)
SP	Service Pack
SSH	Secure Shell
SSP	Safety Service Patrol
SwGI	Statewide Government Intranet
TCP	Transmission Control Protocol
TOC	Traffic Operations Center
UMD	University of Maryland
US	United States

<b>Acronym</b>	<b>Description</b>
vCPU	Virtual CPU
VM	Virtual Machine
WAN	Wide Area Network
WMS	Web Map Service
WYSIWYG	What You See Is What You Get
XML	Extensible Markup Language



# A DESIGN STUDIES

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This section provides information on analysis, prototyping, and trade studies dating from the initial system design effort to the current time.

## A.1 CHART Systems Database Strategic Plan

The purpose of this study, completed in April 2011, was to identify database options for the full CHART Program that would maximize technical and financial benefit to SHA's business goals. The subsequent CHART Work Order Scope and Estimate Request Form requested the production of a white paper document to recommend a 5 year strategic plan for the CHART systems databases and also, after a checkpoint with SHA, to create a plan including a schedule, assumptions and risks to implement the approved recommendations.

The assessment was approached using the Enterprise Architecture Framework as defined by the National Institute of Standards and Technology. This approach gives a holistic view of the enterprise. The Enterprise Architecture has 5 layers. The five layers are:

- Enterprise Business Architecture Layer
- Enterprise Information Architecture Layer
- Enterprise Application Architecture Layer
- Enterprise Application Integration Architecture Layer
- Enterprise Infrastructure Architecture Layer

**The Enterprise Business Architecture Layer** review for SHA was carried out previously by CSC (now CSRA) and is reflected in the Business Area Architecture document: BAA Report Revision 6, January 2011. The recommendation for this layer was to continue on those specified in BAA.

**The Enterprise Information Architecture Layer** is comprised of the Presentation Management and Reports Management layers. In the Presentation Management layer of SHA, there are several Graphical User Interfaces identified. These are CHART GUI, EORS GUI, LCP GUI, CHARTWeb Desktop, CHARTWeb Mobile and the Intranet Map. The recommendation for this layer was to establish a single EORS GUI, establish CHART Analytics GUI, establish an Attention Admin GUI and continue to use the following GUIs; CHARTWeb Mobile, CHARTWeb Desktop, CHART GUI, Intranet Map (ArcGIS) and implement a portal tool that will unify and enable a role-based Single-sign on.

In the Reports Management portion of the Enterprise Information Architecture, several report conduits were identified: SREE, SQL Server Reporting Service, Legacy Reporting Service, and Google Web Analytics Lite. The recommendation for this layer was to retire SREE, consolidate all SQL Server Reporting services, establish CHART dashboards, CHART Analytics (Business Intelligence tool) and use Google Urchin.

**The Enterprise Application Architecture Layer** is comprised of four core applications, which are the CHART ATMS, EORS, CHARTWeb and CHART Mapping. The recommendation at

this layer was to continue to have the applications remain independent of each other and integrate in the middleware layer.

**The Enterprise Application Integration Architecture Layer** is comprised of the middleware/IPC management layer. The CHART middleware management is using CORBA, Apache Tomcat, IIS, ASP, .NET, RSS, XML Web Services, and REST Web Services. The recommendation for this layer was that CHART is already on a good path and should continue to use Tomcat, IIS, ASP, .NET, RSS, and Apache. It was recommended that CHART implement an Enterprise Service Bus (ESB), establish web orchestration using BPEL, establish a form of Workflow mechanism using BPM, and establish a Web Services Manager and Service Registry. These middleware upgrades could possibly lead to the replacement of CORBA as an IPC solution for the CHART ATMS at some point in the future.

The Enterprise Infrastructure Architecture Layer is comprised of Database Management; Archive and Backup Management; and the physical Infrastructure Management. The recommendation for the Database Management portion was for SHA to use web services for communication and take the “Federated Option” which consists of the following components:

- Attention Database (paging system)
- A consolidated CHART Database
- CHART BG Database (SDE & Mapping)
- A consolidated database for EORS
- CHART Web Cache Database
- CHART Analytics Database (CHART-A)

This recommended approach would give SHA flexibility for growth, while systems and development cycles remain independent. It also provides a quicker patching cycle and keeps all application communication at the middleware layer. At the database layer, the recommendation is to consolidate databases where possible and implement an enterprise data governance strategy. The recommendation for the physical Infrastructure Management portion is for SHA to continue on the path of establishing VMware ESXi and upgrading to a more recent version of the Windows Server operating system. The ArcServe Backup product recommended by CHART’s infrastructure team will be implemented

## B DATABASE DETAILS

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This appendix provides descriptions for the database schema used in current release of EORS.

## Data Model Detail

This section provides an overview of the data model.

### Model

Type: Package

Package:

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Affiliates

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	AffiliateId	int	True	True	0	0	0		
False	VendorId	int	False	False	0	0	0		
False	StartDate	datetime	False	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	CPC	float	True	False	0	53	0		
False	Clicks	int	True	False	0	0	0		
False	CPA	float	True	False	0	53	0		
False	Acquisitions	int	True	False	0	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Affiliates	Public	AffiliateId		

## Announcements

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	Title	nvarchar	False	False	150	0	0		
False	URL	nvarchar	False	False	150	0	0		
False	ExpireDate	datetime	False	False	0	23	3		
False	Description	ntext	False	False	0	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	CreatedByUser	int	True	False	0	0	0		
False	PublishDate	datetime	False	False	0	23	3		
False	ImageSource	nvarchar	False	False	250	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Announcements	Public	ItemID		
IX_Announcements	Public	ModuleID		

## AnonymousUsers

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserID	char	True	True	36	0	0		
True	PortalID	int	True	True	0	0	0		
False	TabID	int	True	False	0	0	0		
False	CreationDate	datetime	True	False	0	23	3	(getdate())	
False	LastActiveDate	datetime	True	False	0	23	3	(getdate())	

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_AnonymousUsers	Public	UserID PortalID		

## Assemblies

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	AssemblyID	int	True	True	0	0	0		
False	PackageID	int	True	False	0	0	0		

False	AssemblyName	nvarchar	True	False	250	0	0			
False	Version	nvarchar	True	False	20	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_PackageAssemblies	Public	AssemblyID		

## Authentication

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	AuthenticationID	int	True	True	0	0	0		
False	PackageID	int	True	False	0	0	0	((-1))	
False	AuthenticationType	nvarchar	True	False	100	0	0		
False	IsEnabled	bit	True	False	0	1	0	(0)	
False	SettingsControlSrc	nvarchar	True	False	250	0	0		
False	LoginControlSrc	nvarchar	True	False	250	0	0		
False	LogoffControlSrc	nvarchar	True	False	250	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Authentication	Public	AuthenticationID		

## Banners

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	BannerId	int	True	True	0	0	0		
False	VendorId	int	True	False	0	0	0		
False	ImageFile	nvarchar	False	False	100	0	0		
False	BannerName	nvarchar	True	False	100	0	0		
False	Impressions	int	True	False	0	0	0		
False	CPM	float	True	False	0	53	0		
False	Views	int	True	False	0	0	0	(0)	
False	ClickThroughs	int	True	False	0	0	0	(0)	
False	StartDate	datetime	False	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	CreatedByUser	nvarchar	True	False	100	0	0		
False	CreatedDate	datetime	True	False	0	23	3		
False	BannerTypeId	int	False	False	0	0	0		
False	Description	nvarchar	False	False	200 0	0	0		
False	GroupName	nvarchar	False	False	100	0	0		
False	Criteria	bit	True	False	0	1	0	(1)	
False	URL	nvarchar	False	False	255	0	0		
False	Width	int	True	False	0	0	0	(0)	
False	Height	int	True	False	0	0	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Banner	Public	BannerId		
IX_Banners	Public	BannerTypeId		
IX_Banners_1	Public	VendorId		

### **Blog\_Blogs**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	PortalID	int	True	False	0	0	0		
True	BlogID	int	True	True	0	0	0		
False	UserID	int	True	False	0	0	0		
False	Title	nvarchar	True	False	255	0	0		
False	Description	nvarchar	False	False	102 4	0	0		
False	Public	bit	True	False	0	1	0		
False	AllowComments	bit	True	False	0	1	0		
False	AllowAnonymous	bit	True	False	0	1	0		
False	LastEntry	datetime	False	False	0	23	3		
False	Created	datetime	True	False	0	23	3	(getutcdate()	

							)	
False	ShowFullName	bit	True	False	0	1	0	
False	DateFormat	nvarchar	True	False	50	0	0	
False	Culture	nvarchar	False	False	10	0	0	
False	TimeZone	int	True	False	0	0	0	
False	ParentBlogID	int	False	False	0	0	0	((-1))
False	Syndicated	bit	True	False	0	1	0	
False	SyndicateIndependent	bit	True	False	0	1	0	
False	SyndicationURL	nvarchar	False	False	102 4	0	0	
False	SyndicationEmail	nvarchar	False	False	255	0	0	
False	EmailNotification	bit	False	False	0	1	0	
False	AllowTrackbacks	bit	False	False	0	1	0	
False	AutoTrackback	bit	False	False	0	1	0	
False	MustApproveComments	bit	False	False	0	1	0	
False	MustApproveAnonymous	bit	False	False	0	1	0	
False	MustApproveTrackbacks	bit	False	False	0	1	0	

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Blog_Blogs_BlogID	Public	BlogID		
IX_Blog_Blogs_PortalID	Public	PortalID		

Name	Type	Columns	Initial Code	Notes
IX_Blog_Blogs_UserID	Public	UserID		

## Blog\_Comments

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	CommentID	int	True	True	0	0	0		
False	EntryID	int	True	False	0	0	0		
False	UserID	int	False	False	0	0	0		
False	Comment	ntext	True	False	0	0	0		
False	AddedDate	datetime	True	False	0	23	3		
False	Title	nvarchar	True	False	255	0	0		
False	Approved	bit	False	False	0	1	0		
False	Author	nvarchar	False	False	50	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Blog_Comments_Co mmentID	Public	CommentID		
IX_Blog_Comments_Entr yID	Public	EntryID		

## BlogEntries

Database: SQL Server 2008, Stereotype: «table», Package: Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	BlogID	int	True	False	0	0	0		
True	EntryID	int	True	True	0	0	0		
False	Title	nvarchar	True	False	255	0	0		
False	Entry	ntext	True	False	0	0	0		
False	AddedDate	datetime	True	False	0	23	3		
False	Published	bit	True	False	0	1	0		
False	Description	nvarchar	False	False	102 4	0	0		
False	AllowComments	bit	False	False	0	1	0		
False	DisplayCopyright	bit	True	False	0	1	0		
False	Copyright	nvarchar	False	False	255	0	0		
False	PermaLink	nvarchar	False	False	102 4	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Blog_Entries_EntryID	Public	EntryID		
IX_Blog_Entries_AddedD ate	Public	AddedDate		
IX_Blog_Entries_BlogID	Public	BlogID		

## **Blog\_Settings**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	PortalID	int	True	True	0	0	0		
True	Key	nvarchar	True	True	50	0	0		
False	Value	nvarchar	True	False	102 4	0	0		
True	TabID	int	True	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Blog_Settings	Public	PortalID  TabID  Key		

## **Classification**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ClassificationId	int	True	True	0	0	0		

False	ClassificationName	nvarchar	True	False	200	0	0			
False	ParentId	int	False	False	0	0	0			

Constraints

Name	Type	Columns	Initial Code	Notes
PK_VendorCategory	Public	ClassificationId		
IX_Classification	Public	ParentId		

## DNNMasters\_UIM\_HelperSettings

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	skey	varchar	False	False	50	0	0		
False	svalue	varchar	False	False	256	0	0		

## DNNMasters\_UIM\_MLSP\_Permissions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	PermissionFeature	int	True	False	0	0	0		

	_ID									
False	PermissionName	nvarchar	True	False	25	0	0			
False	PermissionDescription	nvarchar	True	False	50	0	0			
False	BusinessControllerClass	nvarchar	True	False	200	0	0			
False	Abbreviation	nvarchar	False	False	5	0	0			

### DNNMasters\_UIM\_MLSP\_UserPermissions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	UserPermission_ID	int	True	False	0	0	0		
False	DNNUser_ID	int	True	False	0	0	0		
False	PermissionFeature_ID	int	True	False	0	0	0		
False	IsUser	bit	True	False	0	1	0		

### DesktopModules

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes

True	DesktopModuleID	int	True	True	0	0	0			
False	FriendlyName	nvarchar	True	False	128	0	0			
False	Description	nvarchar	False	False	200 0	0	0			
False	Version	nvarchar	False	False	8	0	0			
False	IsPremium	bit	True	False	0	1	0			
False	isAdmin	bit	True	False	0	1	0			
False	BusinessControllerClass	nvarchar	False	False	200	0	0			
False	FolderName	nvarchar	True	False	128	0	0			
False	ModuleName	nvarchar	True	True	128	0	0			
False	SupportedFeatures	int	True	False	0	0	0	(0)		
False	CompatibleVersions	nvarchar	False	False	500	0	0			
False	Dependencies	nvarchar	False	False	400	0	0			
False	Permissions	nvarchar	False	False	400	0	0			

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_DesktopModules	Public	DesktopModuleID		
IX_DesktopModules_ModuleName	Public	ModuleName		
IX_DesktopModules_FriendlyName	Public	FriendlyName		

## DnnForge\_SimpleGallery\_Album

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	AlbumID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	Caption	nvarchar	True	False	255	0	0		
False	IsPublic	bit	True	False	0	1	0	(0)	
False	HomeDirectory	nvarchar	True	False	255	0	0		
False	ParentAlbumID	int	True	False	0	0	0	((-1))	
False	Description	nvarchar	False	False	255	0	0		
False	Password	nvarchar	False	False	50	0	0		
False	AlbumOrder	int	True	False	0	0	0	(0)	

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_DnnForge_SimpleGall ery_Album	Public	AlbumID		

## DnnForge\_SimpleGallery\_Photo

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PhotoID	int	True	True	0	0	0		

False	ModuleID	int	True	False	0	0	0			
False	Name	nvarchar	True	False	100	0	0			
False	FileName	nvarchar	True	False	255	0	0			
False	DateCreated	datetime	True	False	0	23	3			
False	Width	int	True	False	0	0	0			
False	Height	int	True	False	0	0	0			
False	AlbumID	int	False	False	0	0	0			
False	IsDefault	bit	True	False	0	1	0	(0)		
False	AuthorID	int	False	False	0	0	0			
False	ApproverID	int	False	False	0	0	0			
False	IsApproved	bit	True	False	0	1	0	(1)		
False	DateApproved	datetime	False	False	0	23	3			
False	DateUpdated	datetime	False	False	0	23	3			
False	Description	ntext	False	False	0	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_DnnForge_SimpleGallery_Photo	Public	PhotoID		

### DnnForge\_SimpleGallery\_Template

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
----	------	------	----------	--------	-----	-------	-------	------	-------

True	TemplateID	int	True	True	0	0	0			
False	ModuleID	int	True	False	0	0	0			
False	Name	nvarchar	True	False	255	0	0			
False	Template	ntext	True	False	0	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_DnnForge_SimpleGallery_Template	Public	TemplateID		

## Documents

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail*: Created on 2/18/2015. Last modified on 6/14/2016.

*Notes*:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	URL	nvarchar	False	False	250	0	0		
False	Title	nvarchar	False	False	150	0	0		
False	Category	nvarchar	False	False	50	0	0		
False	CreatedByUserID	int	False	False	0	0	0		
False	OwnedByUserID	int	False	False	0	0	0		
False	ModifiedByUserID	int	False	False	0	0	0		
False	ModifiedDate	datetime	False	False	0	23	3		

False	SortOrderIndex	int	False	False	0	0	0			
False	Description	nvarchar	False	False	255	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Documents	Public	ItemID		
IX_Documents	Public	ModuleID		

## DocumentsSettings

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ModuleID	int	True	True	0	0	0		
False	ShowTitleLink	bit	False	False	0	1	0		
False	SortOrder	nvarchar	False	False	200 0	0	0		
False	DisplayColumns	nvarchar	False	False	200 0	0	0		
False	UseCategoriesList	bit	False	False	0	1	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_DocumentsSettings	Public	ModuleID		

## **EORS\_Common\_County**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ID	uniqueid entifier	True	True	0	0	0		
False	county	int	True	False	0	0	0		
False	name	varchar	True	False	20	0	0		
False	abrv	varchar	True	False	2	0	0		
False	district	int	True	False	0	0	0		
False	fips	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_COMMON_County	Public	ID		
IX_EORS_Common_County_county	Public	county		

### Relationships

Columns	Association	Notes
(countyID = ID)	<p><b>0..*</b> EORS_RWIS_Info.FK_EORS_RWIS_Info_county</p> <p><b>1</b> EORS_Common_County.PK__EORS_C</p>	

Columns	Association	Notes
	OMMON_County	
(countyID = ID)	<p><b>0..*</b></p> <p>EORS_Snow_Emergency.FK_EORS_Snow_Emergency_countyID</p> <p><b>1</b></p> <p>EORS_Common_County.PK__EORS_COMMON_County</p>	

## **EORS\_Common\_Direction**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ID	uniqueidentifier	True	True	0	0	0		
False	abrv_txt	varchar	True	False	5	0	0		
False	full_txt	varchar	True	False	20	0	0		
False	ordinal	smallint	True	False	0	5	0		
False	chart_id	smallint	True	False	0	5	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Direction	Public	ID		
IX_EORS_Common_Direction_ordinal	Public	ordinal		

## **EORS\_Common\_Existing\_Seasons**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	seasonID	uniqueid entifier	True	True	0	0	0	(newi d())	
False	season	varchar	False	False	9	0	0		
False	start_date	datetime	True	False	0	23	3		
False	end_date	datetime	True	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK__EORS_Common_Ex is__181AEBB0	Public	seasonID		
IX_EORS_Common_Exist ing_Seasons_season	Public	season		

### Relationships

Columns	Association	Notes
(seasonID = seasonID)	<b>0..*</b>  D  <b>1</b> EORS_Event.FK_EORS_Event_SeasonI  EORS_Common_Existing_Seasons.PK_ _EORS_Common_Exis__181AEBB0	
(seasonID = seasonID)	<b>0..*</b>  EORS_Rates.FK_EORS_Rates_EORS_	

Columns	Association	Notes
	Common_Existing_Seasons_season  1 EORS_Common_Existing_Seasons.PK_ _EORS_Common_Exis_181AEBB0	

## EORS\_Common\_Intersecting\_Route

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ID	uniqueid entifier	True	True	0	0	0		
False	Road_name1	varchar	False	False	35	0	0		
False	Rte_Type1_ID	uniqueid entifier	False	False	0	0	0		
False	Rte_No1	float	False	False	0	53	0		
False	start_county_ID	uniqueid entifier	False	False	0	0	0		
False	District1	int	False	False	0	0	0		
False	Road_Name2	varchar	False	False	35	0	0		
False	Rte_Type2_ID	uniqueid entifier	False	False	0	0	0		
False	Rte_No2	float	False	False	0	53	0		
False	end_county_ID	uniqueid entifier	False	False	0	0	0		
False	District2	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Inte rsecting_Route	Public	ID		

## EORS\_Common\_Route\_Type

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ID	uniqueidentifier	True	True	0	0	0		
False	abrv_txt	varchar	True	False	5	0	0		
False	full_txt	varchar	False	False	20	0	0		
False	ordinal	smallint	True	False	0	5	0		
False	chart_id	smallint	False	False	0	5	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Rou te_Type	Public	ID		
IX_EORS_Common_Rout e_Type_ordinal	Public	ordinal		

## EORS\_Common\_Shop

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	shopID	uniqueid entifier	True	True	0	0	0	(newid())	
False	shop	varchar	True	False	4	0	0		
False	name	varchar	True	False	35	0	0		
False	county	uniqueid entifier	False	False	0	0	0		
False	shortname	varchar	False	False	35	0	0		
False	district	int	False	False	0	0	0		

Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Shop	Public	shopID		

Relationships

Columns	Association	Notes
(shopID = shopID)	<b>0..*</b> EORS_Event_Shop_Report_Materials.FK_EORS_Event_Shop_Report_Materials_shopID  <b>1</b> EORS_Common_Shop.PK_EORS_Common_Shop	
(shopID = shopID)	<b>0..*</b> EORS_Event_Shop_Reports.fk_eors_event_shop_reports_shopID  <b>1</b> EORS_Common_Shop.PK_EORS_Common_Shop	

Columns	Association	Notes
(shopID = shopID)	<p><b>0..*</b> EORS_Rates.FK_EORS_Rates_EORS_Common_Shop_shop</p> <p><b>1</b> EORS_Common_Shop.PK_EORS_Common_Shop</p>	

### EORS\_Common\_Shop\_RWIS\_LKP

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	shopID	uniqueidentifier	True	True	0	0	0		
False	primary_RWIS	varchar	False	False	100	0	0		
False	secondary_RWIS	varchar	False	False	100	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Shop_RWIS_LKP	Public	shopID		

### EORS\_Common\_Shop\_lanemiles

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	shop	varchar	True	False	4	0	0		
False	lanemiles	float	True	False	0	53	0		
False	season	varchar	True	False	50	0	0		

## EORS\_Common\_Zone\_Road\_Types

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	shop	varchar	True	False	4	0	0		
False	shopID	uniqueid entifier	False	False	0	0	0		
False	zone	int	True	False	0	0	0		
False	has_interstate	bit	True	False	0	1	0		
False	has_primary	bit	True	False	0	1	0		
False	has_secondary	bit	True	False	0	1	0		
False	rowguid	uniqueid entifier	True	False	0	0	0		

## EORS\_EOC\_Operations\_Plans

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ID	uniqueid entifier	True	True	0	0	0	(newid())	
False	Update_Time	datetime	True	False	0	23	3	(getdate())	
False	District	int	True	False	0	0	0		
False	Shop	varchar	False	False	4	0	0		
False	Log_Data	varchar	False	False	102 4	0	0		
False	Dumpers	int	True	False	0	0	0	((0))	
False	Loaders	int	True	False	0	0	0	((0))	
False	Graders	int	True	False	0	0	0	((0))	
False	Blowers	int	True	False	0	0	0	((0))	
False	Priority_1_Anti_Ic e	tinyint	True	False	0	3	0	((0))	
False	Priority_2_Anti_Ic e	tinyint	True	False	0	3	0	((0))	
False	Priority_3_Anti_Ic e	tinyint	True	False	0	3	0	((0))	
False	Priority_1_Anti_Ic e_Begin	varchar	False	False	50	0	0		
False	Priority_2_Anti_Ic e_Begin	varchar	False	False	50	0	0		
False	Priority_3_Anti_Ic e_Begin	varchar	False	False	50	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK__EORS_EOC_Operati __5D27D404	Public	ID		

## **EORS\_EOC\_Ops\_Plan\_Archive**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	name	varchar	False	False	20	0	0		
False	date	datetime	False	False	0	23	3		
False	size	int	False	False	0	0	0		

## **EORS\_Event**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	eventID	varchar	True	True	20	0	0		
False	season_event_num	int	True	False	0	0	0		
False	eventTypeID	uniqueidentifier	True	False	0	0	0		
False	status	bit	True	False	0	1	0		
False	displayname	varchar	True	False	100	0	0		
False	date_created	datetime	True	False	0	23	3	(getdate())	
False	date_closed	datetime	False	False	0	23	3		
False	last_report	datetime	False	False	0	23	3		

False	event_name	varchar	False	False	100	0	0			
False	notes	varchar	False	False	102 4	0	0			
False	snow	bit	True	False	0	1	0	((0))		
False	blizzard	bit	True	False	0	1	0	((0))		
False	ice	bit	True	False	0	1	0	((0))		
False	freezing_rain	bit	True	False	0	1	0	((0))		
False	sleet	bit	True	False	0	1	0	((0))		
False	black_ice	bit	True	False	0	1	0	((0))		
False	transportation_incident	bit	True	False	0	1	0	((0))		
False	severe_weather	bit	True	False	0	1	0	((0))		
False	hurricane	bit	True	False	0	1	0	((0))		
False	natural_disaster	bit	True	False	0	1	0	((0))		
False	man_made_disaster	bit	True	False	0	1	0	((0))		
False	radiological_incident	bit	True	False	0	1	0	((0))		
False	public_health_incident	bit	True	False	0	1	0	((0))		
False	terrorist_incident	bit	True	False	0	1	0	((0))		
False	seasonID	uniqueidentifier	True	False	0	0	0			
False	projected_landfall	datetime	False	False	0	23	3			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event	Public	eventID		

Name	Type	Columns	Initial Code	Notes
FK_EORS_Event_SeasonID	Public	seasonID		
FK_EORS_Event_eventTypeID	Public	eventTypeID		

#### Relationships

Columns	Association	Notes
(eventID = eventID)	<p><b>0..*</b> EORS_Event__Debris.FK_EORS_Event ____Debris_eventID</p> <p><b>1</b> EORS_Event.PK_EORS_Event</p>	
(eventID = eventID)	<p><b>0..*</b> EORS_Event_Shop_Report_Materials.F K_EORS_Event_Shop_Report_Materials_eventID</p> <p><b>1</b> EORS_Event.PK_EORS_Event</p>	
(eventID = eventID)	<p><b>0..*</b> EORS_Event_Shop_Reports.fk_eors_ev ent_shop_reports_eventID</p> <p><b>1</b> EORS_Event.PK_EORS_Event</p>	
(eventTypeID = eventTypeID)	<p><b>0..*</b> EORS_Event.FK_EORS_Event_eventTy peID</p> <p><b>1</b> EORS_Event__Types.PK_EORS_Event ____Types</p>	
(seasonID = seasonID)	<p><b>0..*</b> EORS_Event.FK_EORS_Event_SeasonI D</p> <p><b>1</b> EORS_Common_Existing_Seasons.PK_ _EORS_Common_Exis__181AEBB0</p>	

## **EORS\_EventMapping\_Color\_Codes**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	conditionID	int	True	True	0	0	0		
False	condition	varchar	True	False	25	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_EventMapping _Color_Codes	Public	conditionID		

## **EORS\_EventMapping\_Route\_Directions**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	routeDirectionID	uniqueid entifier	True	True	0	0	0	(newid())	
False	route	varchar	True	False	10	0	0		
False	direction	varchar	True	False	5	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes

Name	Type	Columns	Initial Code	Notes
PK_EORS_EventMapping_Route_Directions	Public	routeDirectionID		
IDX_EORS_EventMapping_Route_Directions_route	Public	route		
IDX_EORS_EventMapping_Route_Directions_direction	Public	direction		

## EORS\_EventMapping\_Route\_Segments

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	segmentID	uniqueid entifier	True	True	0	0	0	(newi d())	
False	route	varchar	True	False	10	0	0		
False	segment	varchar	True	False	2	0	0		
False	limits	varchar	True	False	255	0	0		
False	shopID	uniqueid entifier	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_EventMapping_Route_Segments	Public	segmentID		
IDX_EORS_EventMapping_Route	Public	route		

Name	Type	Columns	Initial Code	Notes
g_Route_Segments_route				
IDX_EORS_EventMappin g_Route_Segments_shopI D	Public	shopID		

## EORS\_EventMapping\_Segment\_Conditions

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	segmentCondition ID	uniqueidentifier	True	True	0	0	0	(newid())	
False	route_and_direction	uniqueidentifier	True	False	0	0	0		
False	segment	uniqueidentifier	True	False	0	0	0		
False	condition	varchar	True	False	255	0	0		
False	notes	varchar	False	False	1024	0	0		
False	date	datetime	True	False	0	23	3	(getdate())	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_EventMapping_segment_conditions	Public	segmentCondition ID		

## **EORS\_Event\_IPS\_Color\_Codes**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	colorCodeID	uniqueid entifier	True	False	0	0	0	(newid())	
False	roadConditionID	uniqueid entifier	True	False	0	0	0		
False	code	int	True	False	0	0	0		

## **EORS\_Event\_Shop\_Report\_Materials**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	materialsID	uniqueid entifier	True	True	0	0	0	(newid())	
False	eventID	varchar	True	False	20	0	0		
False	shopID	uniqueid entifier	True	False	0	0	0		
False	salt	int	True	False	0	0	0	((0))	
False	abrasives	int	True	False	0	0	0	((0))	
False	magnesium_chloride	int	True	False	0	0	0	((0))	

False	magnesium_chloride_enhanced	int	True	False	0	0	0	((0))	
False	calcium_chloride	int	True	False	0	0	0	((0))	
False	calcium_chloride_enhanced	int	True	False	0	0	0	((0))	
False	salt_brine	int	True	False	0	0	0	((0))	
False	salt_brine_enhanced	int	True	False	0	0	0	((0))	
False	potassium_acetate	int	True	False	0	0	0	((0))	
False	asphalt	int	True	False	0	0	0	((0))	
False	concrete	int	True	False	0	0	0	((0))	
False	stone	int	True	False	0	0	0	((0))	
False	sand	int	True	False	0	0	0	((0))	
False	meals	money	True	False	0	19	4	((0))	
False	misc	money	True	False	0	19	4	((0))	

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Materials	Public	materialsID		
FK_EORS_Event_Shop_Report_Materials_shopID	Public	shopID		
FK_EORS_Event_Shop_Report_Materials_eventID	Public	eventID		

#### Relationships

Columns	Association	Notes
(eventID = eventID)	0..* EORS_Event_Shop_Report_Materials.F	

Columns	Association	Notes
	K_EORS_Event_Shop_Report_Materials_eventID  1 EORS_Event.PK_EORS_Event	
(shopID = shopID)	0..*  EORS_Event_Shop_Report_Materials.F K_EORS_Event_Shop_Report_Materials_shopID  1  EORS_Common_Shop.PK_EORS_Com mon_Shop	

## EORS\_Event\_Shop\_Report\_Operations

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	operationsID	uniqueidentifier	True	True	0	0	0	(newid())	
False	opsTypeID	uniqueidentifier	True	False	0	0	0		
False	anti_icing	bit	True	False	0	1	0	((0))	
False	salting	bit	True	False	0	1	0	((0))	
False	plowing	bit	True	False	0	1	0	((0))	
False	applying_abrasives	bit	True	False	0	1	0	((0))	
False	push_back_shoulders	bit	True	False	0	1	0	((0))	
False	clearing_snow_drifts	bit	True	False	0	1	0	((0))	
False	hauling_snow	bit	True	False	0	1	0	((0))	

False	treating_hot_spots	bit	True	False	0	1	0	((0))	
False	route_patrol	bit	True	False	0	1	0	((0))	
False	cleaning_inlets	bit	True	False	0	1	0	((0))	
False	removing_debris	bit	True	False	0	1	0	((0))	
False	clearing_trees	bit	True	False	0	1	0	((0))	
False	traffic_control	bit	True	False	0	1	0	((0))	
False	roadway_repairs	bit	True	False	0	1	0	((0))	
False	roadside_repairs	bit	True	False	0	1	0	((0))	
False	assist_other_agencies	varchar	False	False	255	0	0		
False	other	varchar	False	False	255	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Operations	Public	operationsID		
fk_eors_event_shop_report_operations_opsTypeID	Public	opsTypeID		

#### Relationships

Columns	Association	Notes
(operationsID = operationsID)	<p><b>0..*</b> EORS_Event_Shop_Reports.fk_eors_event_shop_reports_operationsID</p> <p><b>1</b> EORS_Event_Shop_Report_Operations. PK_EORS_Event_Shop_Report_Operations</p>	
(opsTypeID = opsTypeID)	<p><b>0..*</b> EORS_Event_Shop_Report_Operations. fk_eors_event_shop_report_operations_opsTypeID</p>	

Columns	Association	Notes
	<b>1</b> EORS_Event__Operations_Types.PK_E ORS_Event__Operations_Types	

## EORS\_Event\_Shop\_Report\_Resources

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	resourcesID	uniqueidentifier	True	True	0	0	0	(newid())	
False	personnel	smallint	True	False	0	5	0	((1))	
False	dumpers	smallint	True	False	0	5	0	((0))	
False	loaders	smallint	True	False	0	5	0	((0))	
False	blowers	smallint	True	False	0	5	0	((0))	
False	graders	smallint	True	False	0	5	0	((0))	
False	excavators	smallint	True	False	0	5	0	((0))	
False	bobcats	smallint	True	False	0	5	0	((0))	
False	backhoes	smallint	True	False	0	5	0	((0))	
False	pickups	smallint	True	False	0	5	0	((0))	
False	utility_trucks	smallint	True	False	0	5	0	((0))	
False	wreckers	smallint	True	False	0	5	0	((0))	
False	chippers	smallint	True	False	0	5	0	((0))	
False	portable_DMS	smallint	True	False	0	5	0	((0))	
False	light_towers	smallint	True	False	0	5	0	((0))	

False	sewer_vacs	smallint	True	False	0	5	0	((0))	
False	sweepers	smallint	True	False	0	5	0	((0))	
False	skid_steurs	smallint	True	False	0	5	0	((0))	
False	tractor_trailers	smallint	True	False	0	5	0	((0))	
False	other	smallint	True	False	0	5	0	((0))	
False	redep_personnel	smallint	True	False	0	5	0	((1))	
False	redep_dumpers	smallint	True	False	0	5	0	((0))	
False	redep_loaders	smallint	True	False	0	5	0	((0))	
False	redep_blowers	smallint	True	False	0	5	0	((0))	
False	redep_graders	smallint	True	False	0	5	0	((0))	
False	redep_excavators	smallint	True	False	0	5	0	((0))	
False	redep_bobcats	smallint	True	False	0	5	0	((0))	
False	redep_backhoes	smallint	True	False	0	5	0	((0))	
False	redep_pickups	smallint	True	False	0	5	0	((0))	
False	redep_utility_trucks	smallint	True	False	0	5	0	((0))	
False	redep_wreckers	smallint	True	False	0	5	0	((0))	
False	redep_chippers	smallint	True	False	0	5	0	((0))	
False	redep_portable_DMS	smallint	True	False	0	5	0	((0))	
False	redep_light_towers	smallint	True	False	0	5	0	((0))	
False	redep_sewer_vacs	smallint	True	False	0	5	0	((0))	
False	redep_sweepers	smallint	True	False	0	5	0	((0))	
False	redep_skid_steurs	smallint	True	False	0	5	0	((0))	
False	redep_tractor_trailers	smallint	True	False	0	5	0	((0))	
False	redep_other	smallint	True	False	0	5	0	((0))	

False	redep_notes	varchar	False	False	900	0	0			
False	con_dumpers	smallint	True	False	0	5	0	((0))		
False	con_loaders	smallint	True	False	0	5	0	((0))		
False	con_blowers	smallint	True	False	0	5	0	((0))		
False	con_graders	smallint	True	False	0	5	0	((0))		
False	con_excavators	smallint	True	False	0	5	0	((0))		
False	con_bobcats	smallint	True	False	0	5	0	((0))		
False	con_backhoes	smallint	True	False	0	5	0	((0))		
False	con_pickups	smallint	True	False	0	5	0	((0))		
False	con_utility_trucks	smallint	True	False	0	5	0	((0))		
False	con_wreckers	smallint	True	False	0	5	0	((0))		
False	con_chippers	smallint	True	False	0	5	0	((0))		
False	con_supervisor_vehicles	smallint	True	False	0	5	0	((0))		
False	con_portable_DMS	smallint	True	False	0	5	0	((0))		
False	con_light_towers	smallint	True	False	0	5	0	((0))		
False	con_sewer_vacs	smallint	True	False	0	5	0	((0))		
False	con_sweepers	smallint	True	False	0	5	0	((0))		
False	con_skid_steurs	smallint	True	False	0	5	0	((0))		
False	con_crances	smallint	True	False	0	5	0	((0))		
False	con_tractor_trailers	smallint	True	False	0	5	0	((0))		
False	con_other	smallint	True	False	0	5	0	((0))		
False	light_tow	smallint	False	False	0	5	0	((0))		
False	redep_light_tow	smallint	False	False	0	5	0	((0))		
False	con_light_tow	smallint	False	False	0	5	0	((0))		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Resources	Public	resourcesID		

### Relationships

Columns	Association	Notes
(resourcesID = resourcesID)	<p><b>0..*</b> EORS_Event_Shop_Reports.fk_eors_event_shop_reports_resourcesID</p> <p><b>1</b> EORS_Event_Shop_Report_Resources.PK_EORS_Event_Shop_Report_Resources</p>	

## EORS\_Event\_Shop\_Report\_Roads

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	roadsID	uniqueid entifier	True	True	0	0	0	(newid())	
False	interstate_cond	uniqueid entifier	True	False	0	0	0		
False	primary_cond	uniqueid entifier	True	False	0	0	0		
False	secondary_cond	uniqueid entifier	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
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Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Roads	Public	roadsID		
FK_EORS_Event_Shop_Report_Roads_primary	Public	primary_cond		
FK_EORS_Event_Shop_Report_Roads_secondary	Public	secondary_cond		
FK_EORS_Event_Shop_Report_Roads_interstate	Public	interstate_cond		

#### Relationships

Columns	Association	Notes
(interstate_cond = roadConditionID)	<p><b>0..*</b>            EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_interstate</p> <p><b>1</b>            EORS_Event__Road_Conditions.PK_EORS_Event__Road_Conditions</p>	
(primary_cond = roadConditionID)	<p><b>0..*</b>            EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_primary</p> <p><b>1</b>            EORS_Event__Road_Conditions.PK_EORS_Event__Road_Conditions</p>	
(roadsID = roadsID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_roadsID</p> <p><b>1</b>            EORS_Event_Shop_Report_Roads.PK_EORS_Event_Shop_Report_Roads</p>	
(secondary_cond = roadConditionID)	<b>0..*</b> EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads	

Columns	Association	Notes
	EORS_Event_Shop_Report_Roads_secondary  1 EORS_Event__Road_Conditions.PK_E ORS_Event__Road_Conditions	

## EORS\_Event\_Shop\_Report\_Weather

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	weatherID	uniqueidentifier	True	True	0	0	0	(newid())	
False	clear	bit	True	False	0	1	0	((0))	
False	cloudy	bit	True	False	0	1	0	((0))	
False	precip	bit	True	False	0	1	0	((0))	
False	snow	bit	True	False	0	1	0	((0))	
False	sleet	bit	True	False	0	1	0	((0))	
False	rain	bit	True	False	0	1	0	((0))	
False	heavy_rain	bit	True	False	0	1	0	((0))	
False	fog	bit	True	False	0	1	0	((0))	
False	ice	bit	True	False	0	1	0	((0))	
False	hail	bit	True	False	0	1	0	((0))	
False	high_winds	bit	True	False	0	1	0	((0))	
False	thunder_storms	bit	True	False	0	1	0	((0))	
False	temperature	float	False	False	0	53	0		

False	avg_depth	float	False	False	0	53	0	((0))	
False	ice_depth	float	False	False	0	53	0	((0))	
False	primaryID	uniqueid entifier	False	False	0	0	0		
False	secondaryID	uniqueid entifier	False	False	0	0	0		
False	primary_name	varchar	False	False	100	0	0		
False	secondary_name	varchar	False	False	100	0	0		
False	primary_date	datetime	False	False	0	23	3		
False	secondary_date	datetime	False	False	0	23	3		
False	primary_sfc	float	False	False	0	53	0		
False	secondary_sfc	float	False	False	0	53	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Weather	Public	weatherID		

#### Relationships

Columns	Association	Notes
(weatherID = weatherID)	<p><b>0..*</b>            EORS_Event_Shop_Report.fk_eors_event_shop_reports_weatherID</p> <p><b>1</b>            EORS_Event_Shop_Report_Weather.PK            EORS_Event_Shop_Report_Weather</p>	

## EORS\_Event\_Shop\_Reports

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	reportID	uniqueid entifier	True	True	0	0	0	(newid())	
False	eventID	varchar	True	False	20	0	0		
False	shopID	uniqueid entifier	True	False	0	0	0		
False	report_num	int	True	False	0	0	0		
False	report_date	datetime	True	False	0	23	3		
False	comments	varchar	False	False	900	0	0		
False	operationsID	uniqueid entifier	True	False	0	0	0		
False	resourcesID	uniqueid entifier	True	False	0	0	0		
False	roadsID	uniqueid entifier	True	False	0	0	0		
False	weatherID	uniqueid entifier	True	False	0	0	0		
False	reportedBy	varchar	False	False	50	0	0		
False	reg_hours	float	True	False	0	53	0	((0))	
False	ot_hours	float	True	False	0	53	0	((0))	

Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Winter _Shop_Report	Public	reportID		
fk_eors_event_shop_repor ts_shopID	Public	shopID		

Name	Type	Columns	Initial Code	Notes
fk_eors_event_shop_reports_eventID	Public	eventID		
fk_eors_event_shop_reports_operationsID	Public	operationsID		
fk_eors_event_shop_reports_resourcesID	Public	resourcesID		
fk_eors_event_shop_reports_roadsID	Public	roadsID		
fk_eors_event_shop_reports_weatherID	Public	weatherID		

#### Relationships

Columns	Association	Notes
(eventID = eventID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_eventID</p> <p><b>1</b>            EORS_Event.PK_EORS_Event</p>	
(operationsID = operationsID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_operationsID</p> <p><b>1</b>            EORS_Event_Shop_Report_Operations.PK_EORS_Event_Shop_Report_Operations</p>	
(resourcesID = resourcesID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_resourcesID</p> <p><b>1</b>            EORS_Event_Shop_Report_Resources.PK_EORS_Event_Shop_Report_Resources</p>	
(roadsID = roadsID)	<b>0..*</b>	

Columns	Association	Notes
	<p>EORS_Event_Shop_Reports.fk_eors_event_shop_reports_roadsID</p> <p><b>1</b></p> <p>EORS_Event_Shop_Report_Roads.PK_EORS_Event_Shop_Report_Roads</p>	
(shopID = shopID)	<p><b>0..*</b></p> <p>EORS_Event_Shop_Reports.fk_eors_event_shop_reports_shopID</p> <p><b>1</b></p> <p>EORS_Common_Shop.PK_EORS_Common_Shop</p>	
(weatherID = weatherID)	<p><b>0..*</b></p> <p>EORS_Event_Shop_Reports.fk_eors_event_shop_reports_weatherID</p> <p><b>1</b></p> <p>EORS_Event_Shop_Report_Weather.PK_EORS_Event_Shop_Report_Weather</p>	

## EORS\_Event\_Debris

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	eventID	varchar	True	True	20	0	0		
True	shopID	uniqueidentifier	True	True	0	0	0		
False	debris	money	True	False	0	19	4	((0))	
False	userID	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Debris	Public	eventID shopID		
FK_EORS_Event_Debris_eventID	Public	eventID		
FK_EORS_Event_Debris_userID	Public	userID		

### Relationships

Columns	Association	Notes
(eventID = eventID)	<p><b>0..*</b></p> <p>EORS_Event__Debris.FK_EORS_Event__Debris_eventID</p> <p><b>1</b> EORS_Event.PK_EORS_Event</p>	
(userID = UserID)	<p><b>0..*</b></p> <p>EORS_Event__Debris.FK_EORS_Event__Debris(userID)</p> <p><b>1</b> Users.PK_Users</p>	

## **EORS\_Event\_Operations\_Types**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	opsTypeID	uniqueid entifier	True	True	0	0	0	(newi d())	

False	ops_type	varchar	True	False	25	0	0			
False	ordinal	tinyint	True	False	0	3	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Operations_Types	Public	opsTypeID		
IDX_EORS_Event_Operations_Types_ordinal	Public	ordinal		

#### Relationships

Columns	Association	Notes
(opsTypeID = opsTypeID)	<p><b>0..*</b></p> <p>EORS_Event_Shop_Report_Operations. fk_eors_event_shop_report_operations_opsTypeID</p> <p><b>1</b></p> <p>EORS_Event_Operations_Types.PK_EORS_Event_Operations_Types</p>	

## **EORS\_Event\_Road\_Conditions**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	roadConditionID	uniqueidentifier	True	True	0	0	0	(newid())	
False	road_condition	varchar	True	False	35	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Road_Conditions	Public	roadConditionID		

#### Relationships

Columns	Association	Notes
(interstate_cond = roadConditionID)	<p><b>0..*</b> EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_interstate</p> <p><b>1</b> EORS_Event__Road_Conditions.PK_EORS_Event__Road_Conditions</p>	
(primary_cond = roadConditionID)	<p><b>0..*</b> EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_primary</p> <p><b>1</b> EORS_Event__Road_Conditions.PK_EORS_Event__Road_Conditions</p>	
(secondary_cond = roadConditionID)	<p><b>0..*</b> EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_secondary</p> <p><b>1</b> EORS_Event__Road_Conditions.PK_EORS_Event__Road_Conditions</p>	

## EORS\_Event\_Types

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes

True	eventTypeID	uniqueid entifier	True	True	0	0	0	(newi d())	
False	event_type	varchar	True	False	50	0	0		
False	ordinal	tinyint	True	False	0	3	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event__Types	Public	eventTypeID		
IDX_EORS_Event__Type s_ordinal	Public	ordinal		

#### Relationships

Columns	Association	Notes
(eventTypeID = eventTypeID)	<p><b>0..*</b> peID EORS_Event.FK_EORS_Event_eventTy</p> <p><b>1</b> EORS_Event__Types.PK_EORS_Event —Types</p>	

## EORS\_Events\_Notifier

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	recipient	varchar	True	False	255	0	0		
False	cc	varchar	False	False	255	0	0		

False	bcc	varchar	False	False	255	0	0			
False	subject	varchar	True	False	255	0	0			
False	open_limit	int	False	False	0	0	0			
False	paused_limit	int	False	False	0	0	0			
False	open_enabled	bit	True	False	0	1	0			
False	paused_enabled	bit	True	False	0	1	0			

## EORS\_HP\_Responsible\_Parties

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	Party_ID	int	True	True	0	0	0		
False	name	varchar	True	False	10	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK__EORS__127AB1E3	Public	Party_ID		

## EORS\_RWIS\_Info

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not	Unique	Len	Pre	Scale	Init	Notes

			<b>Null</b>			<b>c</b>			
True	RwisID	uniqueid entifier	True	True	0	0	0	(newi d())	
False	location	varchar	True	False	100	0	0		
False	countyID	uniqueid entifier	False	False	0	0	0		
False	rpu_number	int	False	False	0	0	0		
False	sysid	int	False	False	0	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_RWIS_Info	Public	RwisID		
IDX_EORS_RWIS_Info	Public	location		
FK_EORS_RWIS_Info_c ounty	Public	countyID		

#### Relationships

Columns	Association	Notes
(countyID = ID)	<p><b>0..*</b>            EORS_RWIS_Info.FK_EORS_RWIS_I            nfo_county</p> <p><b>1</b>            EORS_Common_County.PK__EORS_C            OMMON_County</p>	
(primary_RWIS = RwisID)	<p><b>0..*</b>            EORS_Shop_RWIS.FK_EORS_shop_pr            imary_RWIS</p> <p><b>1</b>            EORS_RWIS_Info.PK_EORS_RWIS_I</p>	

Columns	Association	Notes
	nfo	
(secondary_RWIS = RwisID)	<p><b>0..*</b> EORS_Shop_RWIS.FK_EORS_shop_secondary_RWIS</p> <p><b>1</b> EORS_RWIS_Info.PK_EORS_RWIS_I</p> <p>nfo</p>	

## EORS\_Rates

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ratesID	uniqueid entifier	True	True	0	0	0	(newid())	
False	shopID	uniqueid entifier	True	False	0	0	0		
False	personnel	money	True	False	0	19	4	((0))	
False	dumpers	money	True	False	0	19	4	((0))	
False	loaders	money	True	False	0	19	4	((0))	
False	graders	money	True	False	0	19	4	((0))	
False	pickups_autos	money	True	False	0	19	4	((0))	
False	excavators	money	True	False	0	19	4	((0))	
False	wreckers	money	True	False	0	19	4	((0))	
False	blowers	money	True	False	0	19	4	((0))	
False	sweepers	money	True	False	0	19	4	((0))	

False	chippers	money	True	False	0	19	4	((0))	
False	bobcats	money	True	False	0	19	4	((0))	
False	backhoes	money	True	False	0	19	4	((0))	
False	utility_trucks	money	True	False	0	19	4	((0))	
False	portable_DMS	money	True	False	0	19	4	((0))	
False	skid_steurs	money	True	False	0	19	4	((0))	
False	light_towers	money	True	False	0	19	4	((0))	
False	sewer_vacuums	money	True	False	0	19	4	((0))	
False	other	money	True	False	0	19	4	((0))	
False	tractor_trailers	money	True	False	0	19	4	((0))	
False	con_dumpers	money	True	False	0	19	4	((0))	
False	con_loaders	money	True	False	0	19	4	((0))	
False	con_graders	money	True	False	0	19	4	((0))	
False	con_pickups_automobiles	money	True	False	0	19	4	((0))	
False	con_blowers	money	True	False	0	19	4	((0))	
False	con_excavators	money	True	False	0	19	4	((0))	
False	con_wreckers	money	True	False	0	19	4	((0))	
False	con_sweepers	money	True	False	0	19	4	((0))	
False	con_chippers	money	True	False	0	19	4	((0))	
False	con_bobcats	money	True	False	0	19	4	((0))	
False	con_backhoes	money	True	False	0	19	4	((0))	
False	con_portable_DMS	money	True	False	0	19	4	((0))	
False	con_skid_steurs	money	True	False	0	19	4	((0))	
False	con_supervisor_vehicles	money	True	False	0	19	4	((0))	

False	con_light_towers	money	True	False	0	19	4	((0))	
False	con_sewer_vacuum	money	True	False	0	19	4	((0))	
False	con_utility_trucks	money	True	False	0	19	4	((0))	
False	con_tractor_trailers	money	True	False	0	19	4	((0))	
False	con_other	money	True	False	0	19	4	((0))	
False	con_crane	money	True	False	0	19	4	((0))	
False	Salt	money	True	False	0	19	4	((0))	
False	Abrasives	money	True	False	0	19	4	((0))	
False	mag	money	True	False	0	19	4	((0))	
False	mag_enhanced	money	True	False	0	19	4	((0))	
False	calcium	money	True	False	0	19	4	((0))	
False	calcium_enhanced	money	True	False	0	19	4	((0))	
False	salt_brine	money	True	False	0	19	4	((0))	
False	salt_brine_enhanced	money	True	False	0	19	4	((0))	
False	potassium	money	True	False	0	19	4	((0))	
False	asphalt	money	True	False	0	19	4	((0))	
False	concrete	money	True	False	0	19	4	((0))	
False	stone	money	True	False	0	19	4	((0))	
False	sand	money	True	False	0	19	4	((0))	
False	seasonID	uniqueid	True	False	0	0	0		
False	light_tow	money	False	False	0	19	4	((0))	
False	con_light_tow	money	False	False	0	19	4	((0))	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Rates	Public	ratesID		
IX_EORS_Rates_season	Public	seasonID		
IX_EORS_Rates_shop	Public	shopID		
FK_EORS_Rates_EORS_Common_Existing_Seasons_season	Public	seasonID		
FK_EORS_Rates_EORS_Common_Shop_shop	Public	shopID		

#### *Relationships*

Columns	Association	Notes
(seasonID = seasonID)	<p><b>0..*</b> EORS_Rates.FK_EORS_Rates_EORS_Common_Existing_Seasons_season</p> <p><b>1</b> EORS_Common_Existing_Seasons.PK_EORS_Common_Exis__181AEBB0</p>	
(shopID = shopID)	<p><b>0..*</b> EORS_Rates.FK_EORS_Rates_EORS_Common_Shop_shop</p> <p><b>1</b> EORS_Common_Shop.PK_EORS_Comon_Shop</p>	

### **EORS\_Report\_OOM\_Averages\_Lkp**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	shop	varchar	False	False	4	0	0		
False	district	int	False	False	0	0	0		
False	average	float	True	False	0	53	0		

## EORS\_Route\_Restriction

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	rrid	uniqueidentifier	True	True	0	0	0	(newid())	
False	date_created	datetime	True	False	0	23	3		
False	created_by	int	True	False	0	0	0		
False	start_date	datetime	True	False	0	23	3		
False	start_county_ID	uniqueidentifier	False	False	0	0	0		
False	end_county_ID	uniqueidentifier	False	False	0	0	0		
False	location_area	varchar	False	False	100	0	0	(null)	
False	location_route_type_ID	uniqueidentifier	False	False	0	0	0	(null)	
False	location_route_number	int	False	False	0	0	0	(0)	
False	intersect_route_type	uniqueid	False	False	0	0	0	(null)	

	pe_from_ID	entifier								
False	intersect_route_number_from	int	False	False	0	0	0	(0)		
False	intersect_route_type_to_ID	uniqueid entifier	False	False	0	0	0	(null)		
False	intersect_route_number_to	int	False	False	0	0	0	(null)		
False	intersect_road_from	varchar	False	False	50	0	0	(null)		
False	intersect_road_to	varchar	False	False	50	0	0	(null)		
False	limits_from	varchar	False	False	50	0	0	(null)		
False	limits_to	varchar	False	False	50	0	0	(null)		
False	exit_from	varchar	False	False	4	0	0	(null)		
False	exit_to	varchar	False	False	4	0	0	(null)		
False	mp_from	tinyint	False	False	0	3	0	(0)		
False	mp_to	tinyint	False	False	0	3	0	(0)		
False	otherFrom	varchar	False	False	100	0	0	(null)		
False	otherTo	varchar	False	False	100	0	0	(null)		
False	direction_ID	uniqueid entifier	False	False	0	0	0	(null)		
False	direction	varchar	False	False	36	0	0	(null)		
False	description	varchar	True	False	200	0	0			
False	active	bit	True	False	0	1	0	(1)		
False	closed_to_permit_loads	bit	True	False	0	1	0	(0)		
False	until_further_notice	bit	True	False	0	1	0	(0)		
False	isMapped	bit	True	False	0	1	0	(0)		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Route_Restriction	Public	rrid		
IX_EORS_Route_Restriction_start_date	Public	start_date		
IX_EORS_Route_Restriction_location_area	Public	location_area		
IX_EORS_Route_Restriction_location_route_num	Public	location_route_num		
IX_EORS_Route_Restriction_location_route_type_ID	Public	location_route_type_ID		
IX_EORS_Route_Restriction_start_county_ID	Public	start_county_ID		

## EORS\_SARS\_CHART

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	update_time	datetime	True	False	0	23	3		
False	update_by	varchar	True	False	50	0	0		
False	update_email	varchar(max)	True	False	0	0	0		
False	toc3_wreckers	varchar(	False	False	0	0	0		

		max)								
False	toc3_route_patrols	varchar(max)	False	False	0	0	0			
False	toc4_wreckers	varchar(max)	False	False	0	0	0			
False	toc4_route_patrols	varchar(max)	False	False	0	0	0			
False	toc5_wreckers	varchar(max)	False	False	0	0	0			
False	toc5_route_patrols	varchar(max)	False	False	0	0	0			
False	toc6_wreckers	varchar(max)	False	False	0	0	0			
False	toc6_route_patrols	varchar(max)	False	False	0	0	0			
False	toc7_wreckers	varchar(max)	False	False	0	0	0			
False	toc7_route_patrols	varchar(max)	False	False	0	0	0			
False	soc_wreckers	varchar(max)	False	False	0	0	0			
False	soc_route_patrols	varchar(max)	False	False	0	0	0			

## EORS\_SARS\_District

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes

False	update_time	datetime	True	False	0	23	3				
False	update_by	varchar	True	False	50	0	0				
False	update_email	varchar(max)	True	False	0	0	0				
False	district	int	True	False	0	0	0				
False	summary	varchar(max)	False	False	0	0	0				
False	wreckers	varchar(max)	False	False	0	0	0				
False	route_patrols	varchar(max)	False	False	0	0	0				
False	assist	varchar(max)	False	False	0	0	0				
False	incidents	varchar(max)	False	False	0	0	0				

## EORS\_SARS\_PIO

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	update_time	datetime	True	False	0	23	3		
False	update_by	varchar	True	False	50	0	0		
False	update_email	varchar(max)	True	False	0	0	0		
False	summary	varchar(max)	False	False	0	0	0		

## EORS\_SARS\_Reportng\_Schedule

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	step	int	True	False	0	0	0		
False	time_range	varchar	True	False	50	0	0		
False	description	varchar	True	False	500	0	0		

## **EORS\_SARS\_State**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	report_num	int	True	False	0	0	0		
False	update_time	datetime	True	False	0	23	3		
False	update_by	varchar	True	False	50	0	0		
False	update_email	varchar	True	False	500	0	0		
False	summary	varchar(max)	False	False	0	0	0		
False	others	varchar(max)	False	False	0	0	0		

## **EORS\_Salt\_Dome\_Info**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	shop	varchar	True	False	4	0	0		
False	dome	varchar	True	False	20	0	0		
False	info	varchar	True	False	255	0	0		
False	capacity	int	True	False	0	0	0		
False	high_priority	int	True	False	0	0	0		
False	record_id	int	True	False	0	0	0		
False	DomeSiteID	varchar	False	False	50	0	0		
False	percent_usage	float	True	False	0	53	0	((0))	
False	statewide_avg	float	True	False	0	53	0	((967))	
False	dome_lane_miles	float	True	False	0	53	0	((1))	

### EORS\_Shop\_Equipment\_Inventory

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	shopID	uniqueid entifier	True	True	0	0	0		
False	dumpers	int	True	False	0	0	0	((0))	
False	loaders	int	True	False	0	0	0	((0))	
False	graders	int	True	False	0	0	0	((0))	
False	blowers	int	True	False	0	0	0	((0))	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Shop_Equipment_Inventory	Public	shopID		

## EORS\_Shop\_RWIS

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	shopID	uniqueidentifier	True	True	0	0	0		
False	primary_RWIS	uniqueidentifier	False	False	0	0	0		
False	secondary_RWIS	uniqueidentifier	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_shop_RWIS	Public	shopID		
FK_EORS_shop_primary_RWIS	Public	primary_RWIS		
FK_EORS_shop_secondary_RWIS	Public	secondary_RWIS		

### Relationships

Columns	Association	Notes
(primary_RWIS = RwisID)	<p><b>0..*</b> EORS_Shop_RWIS.FK_EORS_shop_primary_RWIS</p> <p><b>1</b> EORS_RWIS_Info.PK_EORS_RWIS_I nfo</p>	
(secondary_RWIS = RwisID)	<p><b>0..*</b> EORS_Shop_RWIS.FK_EORS_shop_secondary_RWIS</p> <p><b>1</b> EORS_RWIS_Info.PK_EORS_RWIS_I nfo</p>	

## EORS\_Snow\_Emergency

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	snowEmergencyID	uniqueidentifier	True	True	0	0	0		
False	countyID	uniqueidentifier	True	False	0	0	0		
False	county	int	True	False	0	0	0		
False	declared	datetime	True	False	0	23	3		
False	lifted	datetime	False	False	0	23	3		
False	exceptions	varchar	False	False	2048	0	0		
False	countyIN	bit	True	False	0	1	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Snow_Emergency	Public	snowEmergencyID		
IX_EORS_Snow_Emergency_declared	Public	declared		
IX_EORS_Snow_Emergency_countyID	Public	countyID		
IX_EORS_Snow_Emergency_lifted	Public	lifted		
FK_EORS_Snow_Emergency_countyID	Public	countyID		

### Relationships

Columns	Association	Notes
(countyID = ID)	<p><b>0..*</b> EORS_Snow_Emergency.FK_EORS_Snow_Emergency_countyID</p> <p><b>1</b> EORS_Common_County.PK__EORS_COMMON_County</p>	

## EventLog

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes

True	LogGUID	varchar	True	True	36	0	0			
False	LogTypeKey	nvarchar	True	False	35	0	0			
False	LogConfigID	int	False	False	0	0	0			
False	LogUserID	int	False	False	0	0	0			
False	LogUserName	nvarchar	False	False	50	0	0			
False	LogPortalID	int	False	False	0	0	0			
False	LogPortalName	nvarchar	False	False	100	0	0			
False	LogCreateDate	datetime	True	False	0	23	3			
False	LogServerName	nvarchar	True	False	50	0	0			
False	LogProperties	ntext	True	False	0	0	0			
False	LogNotificationPending	bit	False	False	0	1	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EventLogMaster	Public	LogGUID		
IX_EventLog	Public	LogConfigID LogTypeKey LogCreateDate		

## EventLogConfig

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ID	int	True	True	0	0	0		
False	LogTypeKey	nvarchar	False	False	35	0	0		
False	LogTypePortalID	int	False	False	0	0	0		
False	LoggingIsActive	bit	True	False	0	1	0		
False	KeepMostRecent	int	True	False	0	0	0		
False	EmailNotificationIsActive	bit	True	False	0	1	0		
False	NotificationThreshold	int	False	False	0	0	0		
False	NotificationThresholdOldTime	int	False	False	0	0	0		
False	NotificationThresholdOldTimeType	int	False	False	0	0	0		
False	MailFromAddress	nvarchar	True	False	50	0	0		
False	MailToAddress	nvarchar	True	False	50	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EventLogConfig	Public	ID		
IX_LogTypeKey_LogTypePortalID	Public	LogTypeKey LogTypePortalID		

## EventLogTypes

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	LogTypeKey	nvarchar	True	True	35	0	0		
False	LogTypeFriendlyName	nvarchar	True	False	50	0	0		
False	LogTypeDescription	nvarchar	True	False	128	0	0		
False	LogTypeOwner	nvarchar	True	False	100	0	0		
False	LogTypeCSSClass	nvarchar	True	False	40	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EventLogTypes	Public	LogTypeKey		

## EventQueue

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	EventMessageID	int	True	True	0	0	0		
False	EventName	nvarchar	True	False	100	0	0		
False	Priority	int	True	False	0	0	0		
False	ProcessorType	nvarchar	True	False	250	0	0		
False	ProcessorCommand	nvarchar	True	False	250	0	0		

False	Body	nvarchar	True	False	250	0	0			
False	Sender	nvarchar	True	False	250	0	0			
False	Subscriber	nvarchar	True	False	100	0	0			
False	AuthorizedRoles	nvarchar	True	False	250	0	0			
False	ExceptionMessage	nvarchar	True	False	250	0	0			
False	SentDate	datetime	True	False	0	23	3			
False	ExpirationDate	datetime	True	False	0	23	3			
False	Attributes	ntext	True	False	0	0	0			
False	IsComplete	bit	True	False	0	1	0	(0)		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EventQueue	Public	EventMessageID		

#### FAQs

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	CreatedByUser	nvarchar	False	False	100	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	Question	ntext	False	False	0	0	0		

False	Answer	ntext	False	False	0	0	0				
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### Constraints

Name	Type	Columns	Initial Code	Notes
PK_FAQs	Public	ItemID		
IX_FAQs	Public	ModuleID		

### Files

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	FileId	int	True	True	0	0	0		
False	PortalId	int	False	False	0	0	0		
False	FileName	nvarchar	True	True	100	0	0		
False	Extension	nvarchar	True	False	100	0	0		
False	Size	int	True	False	0	0	0		
False	Width	int	False	False	0	0	0		
False	Height	int	False	False	0	0	0		
False	ContentType	nvarchar	True	False	200	0	0		
False	Folder	nvarchar	False	False	200	0	0		
False	FolderID	int	True	True	0	0	0		
False	Content	image	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_File	Public	FileId		
IX_FileName	Public	FolderID FileName		
IX_Files	Public	PortalId		

## FolderPermission

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	FolderPermissionID	int	True	True	0	0	0		
False	FolderID	int	True	True	0	0	0		
False	PermissionID	int	True	True	0	0	0		
False	AllowAccess	bit	True	False	0	1	0		
False	RoleID	int	False	True	0	0	0		
False	UserID	int	False	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_FolderPermission	Public	FolderPermissionID		

Name	Type	Columns	Initial Code	Notes
IX_FolderPermission	Public	FolderID PermissionID RoleID UserID		
IX_FolderPermission_Modules	Public	FolderID		
IX_FolderPermission_Permission	Public	PermissionID		
IX_FolderPermission_Roles	Public	RoleID		
IX_FolderPermission_Users	Public	UserID		

## Folders

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	FolderID	int	True	True	0	0	0		
False	PortalID	int	False	True	0	0	0		
False	FolderPath	varchar	True	True	300	0	0		
False	StorageLocation	int	True	False	0	0	0	(0)	

False	IsProtected	bit	True	False	0	1	0	(0)		
False	IsCached	bit	True	False	0	1	0	(0)		
False	LastUpdated	datetime	False	False	0	23	3			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Folders	Public	FolderID		
IX_FolderPath	Public	PortalID FolderPath		

## Forum\_Attachments

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PostID	int	True	True	0	0	0		
True	FileName	nvarchar	True	True	255	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_Attachment	Public	PostID FileName		

## **Forum\_EditForums**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	RoleID	int	True	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_EditForums	Public	ForumID RoleID		

## **Forum\_FilterWords**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	ItemID	int	True	False	0	0	0		
True	PortalID	int	True	True	0	0	0		
True	BadWord	nvarchar	True	True	50	0	0		
False	ReplacedWord	nvarchar	True	False	50	0	0		
False	CreatedBy	int	False	False	0	0	0		

False	CreatedOn	datetime	False	False	0	23	3				
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#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_FilterWords	Public	PortalID BadWord		

## Forum\_Forums

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ForumID	int	True	True	0	0	0		
False	GroupID	int	True	False	0	0	0	(0)	
False	IsActive	bit	True	False	0	1	0	(1)	
False	ParentID	int	True	False	0	0	0	(0)	
False	Name	nvarchar	True	False	255	0	0		
False	Description	nvarchar	False	False	204 8	0	0		
False	CreatedDate	datetime	False	False	0	23	3	(getda te())	
False	CreatedByUser	int	False	False	0	0	0		
False	UpdatedByUser	int	False	False	0	0	0		
False	UpdatedDate	datetime	False	False	0	23	3		
False	IsModerated	bit	False	False	0	1	0	(0)	

False	DaysToView	int	False	False	0	0	0	(0)	
False	SortOrder	int	False	False	0	0	0	(0)	
False	TotalPosts	int	False	False	0	0	0	(0)	
False	TotalThreads	int	False	False	0	0	0	(0)	
False	EnablePostStatistics	bit	False	False	0	1	0	(0)	
False	EnableAutoDelete	bit	False	False	0	1	0	(0)	
False	AutoDeleteThreshold	int	False	False	0	0	0	(90)	
False	MostRecentPostID	int	False	False	0	0	0	(0)	
False	MostRecentThreadID	int	False	False	0	0	0	(0)	
False	MostRecentPostAuthorID	int	False	False	0	0	0	(0)	
False	MostRecentPostDate	datetime	False	False	0	23	3	(getdate())	
False	PostsToModerate	int	False	False	0	0	0	(0)	
False	ForumType	int	False	False	0	0	0	(0)	
False	IsIntegrated	bit	False	False	0	1	0	(0)	
False	IntegratedModuleID	int	False	False	0	0	0	(0)	
False	IntegratedObjects	nvarchar	False	False	255	0	0		
False	IsPrivate	bit	False	False	0	1	0	(0)	
False	AuthorizedRoles	nvarchar	False	False	255	0	0		
False	AuthorizedEditRoles	nvarchar	False	False	255	0	0		

Constraints

Name	Type	Columns	Initial Code	Notes

Name	Type	Columns	Initial Code	Notes
PK_Forum_Forums	Public	ForumID		
IX_Forum_Forums	Public	ForumID		

## Forum Groups

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	GroupID	int	True	True	0	0	0		
False	Name	nvarchar	True	False	255	0	0		
False	PortalID	int	False	False	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	SortOrder	int	True	False	0	0	0	(0)	
False	CreatedDate	datetime	True	False	0	23	3	(getda te())	
False	CreatedByUser	int	True	False	0	0	0		
False	UpdatedByUser	int	False	False	0	0	0		
False	UpdatedDate	datetime	False	False	0	23	3		
False	GroupType	int	False	False	0	0	0	(0)	
False	Server	nvarchar	False	False	100	0	0		
False	Port	int	False	False	0	0	0	(119)	
False	LogonRequired	bit	False	False	0	1	0		

False	UserName	nvarchar	False	False	100	0	0			
False	Password	nvarchar	False	False	100	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_Groups	Public	GroupID		
IX_Forum_Groups	Public	GroupID		
IX_Forum_Groups_Modul eID	Public	ModuleID		

## Forum\_ModerationAction

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	ModerationAction	int	True	False	0	0	0		
False	Description	nvarchar	True	False	255	0	0		
False	TotalActions	int	True	False	0	0	0		

## Forum\_ModerationAudit

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	ModeratedOn	datetime	True	False	0	23	3		
False	PostID	int	True	False	0	0	0		
False	ModeratedBy	int	True	False	0	0	0		
False	ModerationAction	nvarchar	True	False	50	0	0		
False	Notes	nvarchar	False	False	102 4	0	0		

## Forum\_Moderators

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserID	int	True	True	0	0	0		
True	ForumID	int	True	True	0	0	0		
False	AssignedDate	datetime	True	False	0	23	3		
False	PostsModerated	int	True	False	0	0	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_Moderators	Public	UserID ForumID		

## Forum\_Notification

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	RoleID	int	True	True	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Forum_Notification	Public	ForumID RoleID		

## **Forum\_PM**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PMID	int	True	True	0	0	0		
False	ParentPMID	int	True	False	0	0	0		
False	UserID	int	True	False	0	0	0		
False	RemoteAddr	nvarchar	False	False	100	0	0		
False	Subject	nvarchar	True	False	255	0	0		
False	Body	ntext	False	False	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3		

False	PMThreadID	int	False	False	0	0	0			
False	PMLevel	int	False	False	0	0	0			
False	FlatSortOrder	int	False	False	0	0	0			
False	TreeSortOrder	int	False	False	0	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_PM	Public	PMID		

## **Forum\_PMBlocked**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	BlockerUserID	int	False	False	0	0	0		
False	BlockingUserID	int	False	False	0	0	0		
False	BlockedDate	datetime	True	False	0	23	3	(getdate())	
False	ReasonBlocked	nvarchar	False	False	200	0	0		

## **Forum\_PMThreads**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	PMThreadID	int	True	False	0	0	0		
False	PMThreadSubject	nvarchar	True	False	250	0	0		
False	PMStartDate	datetime	False	False	0	23	3		
False	PMStartUserID	int	True	False	0	0	0		
False	PMTouserID	int	True	False	0	0	0		
False	Views	int	False	False	0	0	0		
False	LastPostedPMID	int	False	False	0	0	0		
False	Replies	int	False	False	0	0	0		
False	PMStartUserDeleted	bit	True	False	0	1	0	(0)	
False	PMTouserDeleted	bit	True	False	0	1	0	(0)	
False	PortalID	int	True	False	0	0	0		

## Forum\_Posts

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PostID	int	True	True	0	0	0		
False	ParentPostID	int	True	False	0	0	0		
False	UserID	int	True	False	0	0	0		
False	RemoteAddr	nvarchar	False	False	100	0	0		
False	Notify	bit	False	False	0	1	0		
False	Subject	nvarchar	True	False	255	0	0		

False	Body	ntext	False	False	0	0	0			
False	CreatedByUser	int	False	False	0	0	0			
False	CreatedDate	datetime	False	False	0	23	3			
False	ThreadID	int	False	False	0	0	0			
False	PostLevel	int	False	False	0	0	0	(0)		
False	TreeSortOrder	int	False	False	0	0	0	(0)		
False	FlatSortOrder	int	False	False	0	0	0	(0)		
False	UpdatedDate	datetime	False	False	0	23	3			
False	UpdatedByUser	int	False	False	0	0	0			
False	IsApproved	bit	False	False	0	1	0	(1)		
False	IsLocked	bit	False	False	0	1	0	(0)		
False	IsClosed	bit	False	False	0	1	0	(0)		
False	MediaURL	nvarchar	False	False	255	0	0			
False	MediaNAV	nvarchar	False	False	255	0	0			
False	Attachments	nvarchar	False	False	255	0	0			
False	FileAttachmentURL	nvarchar	False	False	50	0	0			
False	DateApproved	datetime	False	False	0	23	3			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_Posts	Public	PostID		
IX_Forum_Posts	Public	PostID		
Forum_PostsThreadID	Public	ThreadID		

Name	Type	Columns	Initial Code	Notes
Forum_PostsThreadIDFlat SortOrder	Public	ThreadID FlatSortOrder		
Forum_PostsTreeSortOrde r	Public	ThreadID TreeSortOrder		

## Forum\_PrivateForums

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	RoleID	int	True	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_PrivateForums	Public	ForumID RoleID		

## Forum\_Statistics\_Site

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	CreatedDate	datetime	True	False	0	23	3		
False	TotalUsers	int	True	False	0	0	0		
False	TotalPosts	int	True	False	0	0	0		
False	TotalModerators	int	True	False	0	0	0		
False	TotalModeratedPo sts	int	True	False	0	0	0		
False	TotalAnonymous Users	int	True	False	0	0	0		
False	TotalTopics	int	True	False	0	0	0		
False	NewPostsInPast24 Hours	int	True	False	0	0	0		
False	NewThreadsInPast 24Hours	int	True	False	0	0	0		
False	NewUsersInPast2 4Hours	int	True	False	0	0	0		
False	MostViewsThread ID	int	True	False	0	0	0		
False	MostActiveThread ID	int	True	False	0	0	0		
False	MostActiveUserID	int	True	False	0	0	0		
False	MostReadThreadI D	int	True	False	0	0	0		
False	NewestUserID	int	True	False	0	0	0		
False	ModuleID	int	True	False	0	0	0		

**Forum\_ThreadRating**

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserID	int	True	True	0	0	0		
True	ThreadID	int	True	True	0	0	0		
False	Rate	int	False	False	0	0	0		
False	Comment	nvarchar	False	False	500	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Forum_ThreadRating	Public	UserID ThreadID		

## Forum\_Threads

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ThreadID	int	True	True	0	0	0		
False	ForumID	int	True	False	0	0	0	(0)	
False	Views	int	False	False	0	0	0	(0)	
False	LastPostedPostID	int	False	False	0	0	0	(0)	
False	Replies	int	False	False	0	0	0	(0)	

False	IsPinned	bit	False	False	0	1	0	(0)	
False	PinnedDate	datetime	False	False	0	23	3	(getdate())	
False	Image	nvarchar	False	False	255	0	0		
False	ObjectTypeCode	int	False	False	0	0	0		
False	ObjectID	char	False	False	10	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_Threads	Public	ThreadID		
IX_Forum_Threads	Public	ThreadID		

## Forum\_ThreadsRead

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	UserID	int	True	True	0	0	0		
False	ReadThreads	nvarchar	False	False	400 0	0	0		
False	LastPurgeDate	datetime	False	False	0	23	3		

#### Constraints

Name	Type	Columns	Initial Code	Notes

Name	Type	Columns	Initial Code	Notes
PK_Forum_ThreadsRead	Public	ForumID UserID		

## Forum\_TrackedForums

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	UserID	int	True	True	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_TrackedForums	Public	ForumID UserID		

## Forum\_TrackedThreads

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not	Unique	Len	Pre	Scale	Init	Notes

			<b>Null</b>			<b>c</b>			
True	ForumID	int	True	True	0	0	0		
True	ThreadID	int	True	True	0	0	0		
True	UserID	int	True	True	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_TrackedThreads	Public	ThreadID UserID ForumID		

### **Forum\_TrackedWhatsNew**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	UserID	int	True	True	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_TrackedWhatsNew	Public	ForumID UserID		

Name	Type	Columns	Initial Code	Notes

## Forum\_UserForums

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserID	int	True	True	0	0	0		
True	ForumID	int	True	True	0	0	0		
False	LastVisitDate	datetime	False	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_UserForums	Public	UserID ForumID		

## Forum\_UserThreads

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserID	int	True	True	0	0	0		

True	ThreadID	int	True	True	0	0	0			
False	LastVisitDate	datetime	False	False	0	23	3			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_UserThreads	Public	UserID ThreadID		

## Forum\_Users

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserID	int	True	True	0	0	0		
False	Alias	nvarchar	False	False	100	0	0		
False	Signature	nvarchar	False	False	102 4	0	0		
False	Occupation	nvarchar	False	False	255	0	0		
False	Interests	nvarchar	False	False	255	0	0		
False	MSN	nvarchar	False	False	128	0	0		
False	Yahoo	nvarchar	False	False	128	0	0		
False	AIM	nvarchar	False	False	128	0	0		
False	ICQ	nvarchar	False	False	128	0	0		
False	Skin	nvarchar	False	False	255	0	0		
False	UserAvatar	bit	False	False	0	1	0	(0)	

False	Avatar	nvarchar	False	False	255	0	0			
False	AdditionalAvatars	nvarchar	False	False	255	0	0			
False	PostCount	int	False	False	0	0	0	(0)		
False	LastActivity	datetime	False	False	0	23	3	(1 / 1 / 2001)		
False	FlatView	bit	False	False	0	1	0	(1)		
False	IsTrusted	bit	False	False	0	1	0	(0)		
False	EnableThreadTracking	bit	False	False	0	1	0	(1)		
False	EnableDisplayUnreadThreadsOnly	bit	False	False	0	1	0	(1)		
False	EnableDisplayInMemberList	bit	False	False	0	1	0	(1)		
False	EnableOnlineStatus	bit	False	False	0	1	0	(1)		
False	ThreadsPerPage	int	False	False	0	0	0			
False	PostsPerPage	int	False	False	0	0	0			
False	WhatsNewScrollIDirection	int	False	False	0	0	0			
False	WhatsNewNumberOfThread	int	False	False	0	0	0			
False	WhatsNewScrollIDelay	int	False	False	0	0	0			
False	WhatsNewScrollMount	int	False	False	0	0	0			
False	WhatsNewTrackingType	int	False	False	0	0	0			
False	WhatsNewTrackingDuration	int	False	False	0	0	0			
False	WhatsNewTemplate	nvarchar	False	False	255	0	0			

False	DefaultForumID	int	False	False	0	0	0			
False	CollapseGroups	nvarchar	False	False	255	0	0			
False	ViewDescending	bit	False	False	0	1	0	(0)		
False	EnableModNotification	bit	True	False	0	1	0	(1)		
False	IsGlobalModerator	bit	True	False	0	1	0	(0)		
False	ModeratorReturn	bit	True	False	0	1	0	(0)		
False	EnablePM	bit	True	False	0	1	0	(1)		
False	EnablePMNotifications	bit	True	False	0	1	0	(1)		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_Users	Public	UserID		
Forum_UsersUserIDAlias	Public	UserID Alias		

## Help\_Category

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	CategoryID	int	True	False	0	0	0		
False	Name	nvarchar	False	False	50	0	0		

False	Description	nvarchar	False	False	500	0	0				
False	Image	int	False	False	0	0	0				
False	KeyWords	nvarchar	False	False	255	0	0				
False	ModuleID	int	False	False	0	0	0				
False	Order	int	True	False	0	0	0				
False	Level	int	True	False	0	0	0				
False	Parent	int	False	False	0	0	0				
False	Visible	bit	False	False	0	1	0				
False	Deleted	bit	False	False	0	1	0				
False	LastUpdated	datetime	False	False	0	23	3				
False	CategoryGUID	uniqueid entifier	False	False	0	0	0				

## Help\_TutorialCategory

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	CategoryID	int	True	False	0	0	0		
True	ItemID	int	True	True	0	0	0		
False	ViewOrder	int	True	False	0	0	0	(99)	
False	TutorialID	int	False	False	0	0	0		
False	LastUpdated	datetime	False	False	0	23	3		
False	TutorialCategoryG UID	uniqueid entifier	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Help_TutorialCategory	Public	ItemID		

## Help\_Tutorials

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	ProductImage	nvarchar	False	False	150	0	0		
False	Featured	bit	True	False	0	1	0		
False	KeyWords	nvarchar	False	False	200	0	0		
False	DownloadName	nvarchar	False	False	200	0	0		
False	ShortDesc	nvarchar	False	False	500	0	0		
False	Archive	bit	True	False	0	1	0		
False	Description	ntext	False	False	0	0	0		
True	TutorialID	int	True	True	0	0	0		
False	Title	nvarchar	False	False	250	0	0		
False	LastUpdated	datetime	False	False	0	23	3		
False	TutorialGUID	uniqueidentifier	False	False	0	0	0		
False	ModuleID	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
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Name	Type	Columns	Initial Code	Notes
PK_Help_Tutorials	Public	TutorialID		

## HostSettings

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	SettingName	nvarchar	True	True	50	0	0		
False	SettingValue	nvarchar	True	False	256	0	0		
False	SettingIsSecure	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_HostSettings	Public	SettingName		

## HtmlText

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ModuleID	int	True	True	0	0	0		

False	DesktopHTML	ntext	True	False	0	0	0			
False	DesktopSummary	ntext	False	False	0	0	0			
False	CreatedByUser	int	False	False	0	0	0			
False	CreatedDate	datetime	False	False	0	23	3			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_HtmlText	Public	ModuleID		

### **IFrame\_Parameters**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ParameterID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	Name	varchar	True	False	50	0	0		
False	Type	varchar	True	False	50	0	0		
False	Argument	nvarchar	False	False	200	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_IFrame_Parameters	Public	ParameterID		

Name	Type	Columns	Initial Code	Notes
IX_IFrame_Parameters	Public	ModuleID		

## Links

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	Title	nvarchar	False	False	100	0	0		
False	Url	nvarchar	False	False	250	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	Description	nvarchar	False	False	200	0	0		
False	CreatedByUser	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK__Links__07E124C1	Public	ItemID		
IX_Links	Public	ModuleID		

## Lists

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	EntryID	int	True	False	0	0	0		
True	ListName	nvarchar	True	True	50	0	0		
True	Value	nvarchar	True	True	100	0	0		
True	Text	nvarchar	True	True	150	0	0		
True	ParentID	int	True	True	0	0	0	(0)	
False	Level	int	True	False	0	0	0	(0)	
False	SortOrder	int	True	False	0	0	0	(0)	
False	DefinitionID	int	True	False	0	0	0	(0)	
False	Description	nvarchar	False	False	500	0	0		
False	PortalID	int	True	False	0	0	0	((-1))	
False	SystemList	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Lists	Public	ListName Value Text ParentID		

## Media

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ModuleID	int	True	True	0	0	0		
False	Src	nvarchar	True	False	250	0	0		
False	alt	nvarchar	False	False	100	0	0		
False	width	int	False	False	0	0	0		
False	height	int	False	False	0	0	0		
False	NavigateUrl	nvarchar	False	False	250	0	0		
False	MediaAlignment	int	False	False	0	0	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Media	Public	ModuleID		

## ModuleControls

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ModuleControlID	int	True	True	0	0	0		

False	ModuleDefID	int	False	True	0	0	0			
False	ControlKey	nvarchar	False	True	50	0	0			
False	ControlTitle	nvarchar	False	False	50	0	0			
False	ControlSrc	nvarchar	False	True	256	0	0			
False	IconFile	nvarchar	False	False	100	0	0			
False	ControlType	int	True	False	0	0	0			
False	ViewOrder	int	False	False	0	0	0			
False	HelpUrl	nvarchar	False	False	200	0	0			
False	SupportsPartialRendering	bit	True	False	0	1	0	(0)		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ModuleControls	Public	ModuleControlID		
IX_ModuleControls	Public	ModuleDefID ControlKey ControlSrc		

## ModuleDefinitions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ModuleDefID	int	True	True	0	0	0		

False	FriendlyName	nvarchar	True	True	128	0	0			
False	DesktopModuleID	int	True	False	0	0	0			
False	DefaultCacheTime	int	True	False	0	0	0	(0)		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ModuleDefinitions	Public	ModuleDefID		
IX_ModuleDefinitions	Public	FriendlyName		
IX_ModuleDefinitions_1	Public	DesktopModuleID		

## ModulePermission

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ModulePermission ID	int	True	True	0	0	0		
False	ModuleID	int	True	True	0	0	0		
False	PermissionID	int	True	True	0	0	0		
False	AllowAccess	bit	True	False	0	1	0		
False	RoleID	int	False	True	0	0	0		
False	UserID	int	False	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ModulePermission	Public	ModulePermissionID		
IX_ModulePermission	Public	ModuleID PermissionID RoleID UserID		
IX_ModulePermission_Modules	Public	ModuleID		
IX_ModulePermission_Permission	Public	PermissionID		
IX_ModulePermission_Roles	Public	RoleID		
IX_ModulePermission_Users	Public	UserID		

## ModuleSettings

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ModuleID	int	True	True	0	0	0		
True	SettingName	nvarchar	True	True	50	0	0		

False	SettingValue	nvarchar	True	False	200 0	0	0			
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### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ModuleSettings	Public	ModuleID SettingName		

## Modules

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ModuleID	int	True	True	0	0	0		
False	ModuleDefID	int	True	False	0	0	0		
False	ModuleTitle	nvarchar	False	False	256	0	0		
False	AllTabs	bit	True	False	0	1	0	(0)	
False	IsDeleted	bit	True	False	0	1	0	(0)	
False	InheritViewPermis sions	bit	False	False	0	1	0		
False	Header	ntext	False	False	0	0	0		
False	Footer	ntext	False	False	0	0	0		
False	StartDate	datetime	False	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	PortalID	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Modules	Public	ModuleID		
IX_Modules	Public	ModuleDefID		

## Orizonti\_NukeFeeds\_FeedData

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ID	int	True	True	0	0	0		
False	FeedID	int	True	False	0	0	0		
False	Title	nvarchar	False	False	250	0	0		
False	Description	ntext	False	False	0	0	0		
False	Link	varchar	False	False	250	0	0		
False	PublishDate	datetime	False	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Orizonti_NukeFeeds_FeedData	Public	ID		
IX_Orizonti_NukeFeeds_FeedData	Public	FeedID		

## Orizonti\_NukeFeeds\_Feeds

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ID	int	True	True	0	0	0		
False	Name	nvarchar	False	False	250	0	0		
False	URL	nvarchar	True	False	250	0	0		
False	Account	nvarchar	False	False	100	0	0		
False	Password	nvarchar	False	False	100	0	0		
False	Frequency	int	True	False	0	0	0	(0)	
False	LastUpdate	datetime	False	False	0	23	3		
False	ModuleID	int	True	False	0	0	0		
False	SearchKeywords	nvarchar	False	False	250	0	0		
False	SearchIn	int	False	False	0	0	0		
False	StartPoint	int	True	False	0	0	0	(0)	
False	SearchKeywordsExclude	nvarchar	False	False	250	0	0		
False	ItemLimit	int	True	False	0	0	0	(0)	
False	FeedTimeOut	int	True	False	0	0	0	(0)	
False	IsActive	bit	True	False	0	1	0	(1)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Orizonti_NukeFeeds_Feeds	Public	ID		

Name	Type	Columns	Initial Code	Notes

## PackageTypes

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PackageType	nvarchar	True	True	100	0	0		
False	Description	nvarchar	True	False	500	0	0		
False	SecurityAccessLevel	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_PackageTypes_1	Public	PackageType		

## Packages

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PackageID	int	True	True	0	0	0		
False	Name	nvarchar	True	False	50	0	0		

False	FriendlyName	nvarchar	True	False	250	0	0			
False	Description	nvarchar	True	False	200 0	0	0			
False	PackageType	nvarchar	True	False	50	0	0			
False	Version	nvarchar	True	False	50	0	0			
False	License	ntext	True	False	0	0	0			
False	Manifest	ntext	True	False	0	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Packages	Public	PackageID		
IX_Packages	Public	Name		

## Permission

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PermissionID	int	True	True	0	0	0		
False	PermissionCode	varchar	True	True	50	0	0		
False	ModuleDefID	int	True	True	0	0	0		
False	PermissionKey	varchar	True	True	50	0	0		
False	PermissionName	varchar	True	False	50	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Permission	Public	PermissionID		
IX_Permission	Public	PermissionCode ModuleDefID PermissionKey		

## PortalAlias

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PortalAliasID	int	True	True	0	0	0		
False	PortalID	int	True	False	0	0	0		
False	HTTPAlias	nvarchar	False	True	200	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_PortalAlias	Public	PortalAliasID		
IX_PortalAlias	Public	HTTPAlias		

## PortalDesktopModules

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PortalDesktopModuleID	int	True	True	0	0	0		
False	PortalID	int	True	True	0	0	0		
False	DesktopModuleID	int	True	True	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_PortalDesktopModules	Public	PortalDesktopModuleID		
IX_PortalDesktopModules	Public	PortalID DesktopModuleID		

## Portals

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	PortalID	int	True	True	0	0	0		
False	PortalName	nvarchar	True	False	128	0	0		

False	LogoFile	nvarchar	False	False	50	0	0			
False	FooterText	nvarchar	False	False	100	0	0			
False	ExpiryDate	datetime	False	False	0	23	3			
False	UserRegistration	int	True	False	0	0	0	(0)		
False	BannerAdvertising	int	True	False	0	0	0	(0)		
False	AdministratorId	int	False	False	0	0	0			
False	Currency	char	False	False	3	0	0			
False	HostFee	money	True	False	0	19	4	(0)		
False	HostSpace	int	True	False	0	0	0	(0)		
False	AdministratorRoleId	int	False	False	0	0	0			
False	RegisteredRoleId	int	False	False	0	0	0			
False	Description	nvarchar	False	False	500	0	0			
False	KeyWords	nvarchar	False	False	500	0	0			
False	BackgroundFile	nvarchar	False	False	50	0	0			
False	GUID	uniqueidentifier	True	False	0	0	0	(newid())		
False	PaymentProcessor	nvarchar	False	False	50	0	0			
False	ProcessorUserId	nvarchar	False	False	50	0	0			
False	ProcessorPassword	nvarchar	False	False	50	0	0			
False	SiteLogHistory	int	False	False	0	0	0			
False	HomeTabId	int	False	False	0	0	0			
False	LoginTabId	int	False	False	0	0	0			
False	UserTabId	int	False	False	0	0	0			
False	DefaultLanguage	nvarchar	True	False	10	0	0	('en-US')		
False	TimezoneOffset	int	True	False	0	0	0	((-8))		

False	AdminTabId	int	False	False	0	0	0		
False	HomeDirectory	varchar	True	False	100	0	0	(")	
False	SplashTabId	int	False	False	0	0	0		
False	PageQuota	int	True	False	0	0	0	(0)	
False	UserQuota	int	True	False	0	0	0	(0)	

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Portals	Public	PortalID		

## Profile

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ProfileId	int	True	True	0	0	0		
False	UserId	int	True	False	0	0	0		
False	PortalId	int	True	False	0	0	0		
False	ProfileData	ntext	True	False	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Profile	Public	ProfileId		

Name	Type	Columns	Initial Code	Notes
IX_Profile	Public	UserId PortalId		

## ProfilePropertyDefinition

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	PropertyDefinitionID	int	True	True	0	0	0		
False	PortalID	int	False	False	0	0	0		
False	ModuleDefID	int	False	False	0	0	0		
False	Deleted	bit	True	False	0	1	0		
False	DataType	int	True	False	0	0	0		
False	DefaultValue	ntext	False	False	0	0	0		
False	PropertyCategory	nvarchar	True	False	50	0	0		
False	PropertyName	nvarchar	True	False	50	0	0		
False	Length	int	True	False	0	0	0	(0)	
False	Required	bit	True	False	0	1	0		
False	ValidationExpression	nvarchar	False	False	200	0	0		
False	ViewOrder	int	True	False	0	0	0		
False	Visible	bit	True	False	0	1	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ProfilePropertyDefinition	Public	PropertyDefinitionID		
IX_ProfilePropertyDefinition	Public	PortalID ModuleDefID PropertyName		
IX_ProfilePropertyDefinition_PropertyName	Public	PropertyName		

## RS2005Parameters

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ParmId	int	True	True	0	0	0		
False	PortalId	int	False	False	0	0	0		
False	ModuleId	int	False	False	0	0	0		
False	ParmName	varchar	False	False	200	0	0		
False	ParmValue	varchar	False	False	200	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_RS2005Parameters	Public	ParmId		

Name	Type	Columns	Initial Code	Notes

## RS2005Servers

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ServerId	int	True	True	0	0	0		
False	ServerName	varchar	False	False	100	0	0		
False	ServerURL	varchar	False	False	500	0	0		
False	ServerVersion	varchar	False	False	50	0	0		
False	UserName	varchar	False	False	100	0	0		
False	Password	varchar	False	False	100	0	0		
False	Domain	varchar	False	False	100	0	0		
False	PortalId	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
_PK_RS2005Servers	Public	ServerId		

## RoleGroups

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	RoleGroupID	int	True	True	0	0	0		
False	PortalID	int	True	True	0	0	0		
False	RoleGroupName	nvarchar	True	True	50	0	0		
False	Description	nvarchar	False	False	100	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_RoleGroups	Public	RoleGroupID		
IX_RoleGroupName	Public	PortalID RoleGroupName		

## Roles

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	RoleID	int	True	True	0	0	0		
False	PortalID	int	True	True	0	0	0		
False	RoleName	nvarchar	True	True	50	0	0		
False	Description	nvarchar	False	False	100	0	0		

False	ServiceFee	money	False	False	0	19	4	(0)		
False	BillingFrequency	char	False	False	1	0	0			
False	TrialPeriod	int	False	False	0	0	0			
False	TrialFrequency	char	False	False	1	0	0			
False	BillingPeriod	int	False	False	0	0	0			
False	TrialFee	money	False	False	0	19	4			
False	IsPublic	bit	True	False	0	1	0	(0)		
False	AutoAssignment	bit	True	False	0	1	0	(0)		
False	RoleGroupID	int	False	False	0	0	0			
False	RSVPCode	nvarchar	False	False	50	0	0			
False	IconFile	nvarchar	False	False	100	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Roles	Public	RoleID		
IX_RoleName	Public	PortalID RoleName		
IX_Roles	Public	BillingFrequency		

#### Schedule

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ScheduleID	int	True	True	0	0	0		
False	TypeFullName	varchar	True	False	200	0	0		
False	TimeLapse	int	True	False	0	0	0		
False	TimeLapseMeasurement	varchar	True	False	2	0	0		
False	RetryTimeLapse	int	True	False	0	0	0		
False	RetryTimeLapseMeasurement	varchar	True	False	2	0	0		
False	RetainHistoryNum	int	True	False	0	0	0		
False	AttachToEvent	varchar	True	False	50	0	0		
False	CatchUpEnabled	bit	True	False	0	1	0		
False	Enabled	bit	True	False	0	1	0		
False	ObjectDependencies	varchar	True	False	300	0	0		
False	Servers	nvarchar	False	False	150	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Schedule	Public	ScheduleID		

## ScheduleHistory

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not	Unique	Len	Pre c	Scale	Init	Notes
----	------	------	-----	--------	-----	-------	-------	------	-------

			<b>Null</b>			<b>c</b>			
True	ScheduleHistoryID	int	True	True	0	0	0		
False	ScheduleID	int	True	False	0	0	0		
False	StartDate	datetime	True	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	Succeeded	bit	False	False	0	1	0		
False	LogNotes	ntext	False	False	0	0	0		
False	NextStart	datetime	False	False	0	23	3		
False	Server	nvarchar	False	False	150	0	0		

#### ***Constraints***

<b>Name</b>	<b>Type</b>	<b>Columns</b>	<b>Initial Code</b>	<b>Notes</b>
PK_ScheduleHistory	Public	ScheduleHistoryID		
IX_ScheduleHistory_NextStart	Public	ScheduleID NextStart		
IX_ScheduleHistory_StartDate	Public	ScheduleID StartDate		

## **ScheduleItemSettings**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ScheduleID	int	True	True	0	0	0		
True	SettingName	nvarchar	True	True	50	0	0		
False	SettingValue	nvarchar	True	False	200	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ScheduleItemSettings	Public	ScheduleID SettingName		

## SearchCommonWords

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	CommonWordID	int	True	True	0	0	0		
False	CommonWord	nvarchar	True	False	255	0	0		
False	Locale	nvarchar	False	False	10	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchCommonWords	Public	CommonWordID		

## SearchIndexer

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	SearchIndexerID	int	True	True	0	0	0		
False	SearchIndexerAssemblyQualifiedName	char	True	False	200	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchIndexer	Public	SearchIndexerID		

## SearchItem

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	SearchItemID	int	True	True	0	0	0		
False	Title	nvarchar	True	False	200	0	0		
False	Description	nvarchar	True	False	200	0	0		
False	Author	int	False	False	0	0	0		

False	PubDate	datetime	True	False	0	23	3				
False	ModuleId	int	True	False	0	0	0				
False	SearchKey	nvarchar	True	False	100	0	0				
False	Guid	varchar	False	False	200	0	0				
False	HitCount	int	False	False	0	0	0				
False	ImageFileDialog	int	False	False	0	0	0				

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchItem	Public	SearchItemID		
IX_SearchItem	Public	ModuleId SearchKey		

## SearchItemWord

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	SearchItemWordID	int	True	True	0	0	0		
False	SearchItemID	int	True	True	0	0	0		
False	SearchWordsID	int	True	True	0	0	0		
False	Occurrences	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchItemWords	Public	SearchItemWordID		
IX_SearchItemWord	Public	SearchItemID SearchWordsID		

## SearchItemWordPosition

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	SearchItemWordPositionID	int	True	True	0	0	0		
False	SearchItemWordID	int	True	False	0	0	0		
False	ContentPosition	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchItemWordPosition	Public	SearchItemWordPositionID		

## SearchWord

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	SearchWordsID	int	True	True	0	0	0		
False	Word	nvarchar	True	True	100	0	0		
False	IsCommon	bit	False	False	0	1	0		
False	HitCount	int	True	False	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_SearchWord	Public	SearchWordsID		
IX_SearchWord	Public	Word		

## SiteLog

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	SiteLogId	int	True	True	0	0	0		
False	DateTime	smalldatetime	True	False	0	16	0		
False	PortalId	int	True	False	0	0	0		
False	UserId	int	False	False	0	0	0		

False	Referrer	nvarchar	False	False	255	0	0				
False	Url	nvarchar	False	False	255	0	0				
False	UserAgent	nvarchar	False	False	255	0	0				
False	UserHostAddress	nvarchar	False	False	255	0	0				
False	UserHostName	nvarchar	False	False	255	0	0				
False	TabId	int	False	False	0	0	0				
False	AffiliateId	int	False	False	0	0	0				

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SiteLog	Public	SiteLogId		
IX_SiteLog	Public	PortalId		

### Skins

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	SkinID	int	True	True	0	0	0		
False	PortalID	int	False	False	0	0	0		
False	SkinRoot	nvarchar	True	False	50	0	0		
False	SkinSrc	nvarchar	True	False	200	0	0		
False	SkinType	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Skins	Public	SkinID		

## SurveyOptions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	SurveyOptionID	int	True	True	0	0	0		
False	SurveyID	int	True	False	0	0	0		
False	ViewOrder	int	True	False	0	0	0		
False	OptionName	nvarchar	True	False	500	0	0		
False	Votes	int	True	False	0	0	0		
False	IsCorrect	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SurveyOptions	Public	SurveyOptionID		

## SurveyResults

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	SurveyResultID	int	True	True	0	0	0		
False	SurveyOptionID	int	True	False	0	0	0		
False	UserID	int	True	False	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_SurveyResults	Public	SurveyResultID		

## Surveys

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	SurveyID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	Question	nvarchar	True	False	500	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	OptionType	char	True	False	1	0	0		
False	CreatedDate	datetime	True	False	0	23	3		
False	CreatedByUser	int	True	False	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes

Name	Type	Columns	Initial Code	Notes
PK_Surveys	Public	SurveyID		

## SystemMessages

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	MessageID	int	True	True	0	0	0		
False	PortalID	int	False	True	0	0	0		
False	MessageName	nvarchar	True	True	50	0	0		
False	MessageValue	ntext	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SystemMessages	Public	MessageID		
IX_SystemMessages	Public	MessageName PortalID		

## TabModuleSettings

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	TabModuleID	int	True	True	0	0	0		
True	SettingName	nvarchar	True	True	50	0	0		
False	SettingValue	nvarchar	True	False	200	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_TabModuleSettings	Public	TabModuleID SettingName		

**TabModules**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	TabModuleID	int	True	True	0	0	0		
False	TabID	int	True	True	0	0	0		
False	ModuleID	int	True	True	0	0	0		
False	PaneName	nvarchar	True	False	50	0	0		
False	ModuleOrder	int	True	False	0	0	0		
False	CacheTime	int	True	False	0	0	0		
False	Alignment	nvarchar	False	False	10	0	0		
False	Color	nvarchar	False	False	20	0	0		

False	Border	nvarchar	False	False	1	0	0			
False	IconFile	nvarchar	False	False	100	0	0			
False	Visibility	int	True	False	0	0	0			
False	ContainerSrc	nvarchar	False	False	200	0	0			
False	DisplayTitle	bit	True	False	0	1	0	(1)		
False	DisplayPrint	bit	True	False	0	1	0	(1)		
False	DisplaySyndicate	bit	True	False	0	1	0	(1)		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_TabModules	Public	TabModuleID		
IX_TabModules	Public	TabID ModuleID		

## TabPermission

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	TabPermissionID	int	True	True	0	0	0		
False	TabID	int	True	True	0	0	0		
False	PermissionID	int	True	True	0	0	0		
False	AllowAccess	bit	True	False	0	1	0		

False	RoleID	int	False	True	0	0	0			
False	UserID	int	False	True	0	0	0			

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_TabPermission	Public	TabPermissionID		
IX_TabPermission	Public	TabID PermissionID RoleID UserID		
IX_TabPermission_Permission	Public	PermissionID		
IX_TabPermission_Roles	Public	RoleID		
IX_TabPermission_Tabs	Public	TabID		
IX_TabPermission_Users	Public	UserID		

### Tabs

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not	Unique	Len	Pre	Scale	Init	Notes

			<b>Null</b>			<b>c</b>			
True	TabID	int	True	True	0	0	0		
False	TabOrder	int	True	False	0	0	0	(0)	
False	PortalID	int	False	False	0	0	0		
False	TabName	nvarchar	True	False	50	0	0		
False	IsVisible	bit	True	False	0	1	0	(1)	
False	ParentId	int	False	False	0	0	0		
False	Level	int	True	False	0	0	0	(0)	
False	IconFile	nvarchar	False	False	100	0	0		
False	DisableLink	bit	True	False	0	1	0	(0)	
False	Title	nvarchar	False	False	200	0	0		
False	Description	nvarchar	False	False	500	0	0		
False	KeyWords	nvarchar	False	False	500	0	0		
False	IsDeleted	bit	True	False	0	1	0	(0)	
False	Url	nvarchar	False	False	255	0	0		
False	SkinSrc	nvarchar	False	False	200	0	0		
False	ContainerSrc	nvarchar	False	False	200	0	0		
False	TabPath	nvarchar	False	False	255	0	0		
False	StartDate	datetime	False	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	RefreshInterval	int	False	False	0	0	0		
False	PageHeadText	nvarchar	False	False	500	0	0		
False	IsSecure	bit	True	False	0	1	0	(0)	

**Constraints**

Name	Type	Columns	Initial Code	Notes

Name	Type	Columns	Initial Code	Notes
PK_Tabs	Public	TabID		
IX_Tabs_1	Public	PortalID		
IX_Tabs_2	Public	ParentId		

## UrlLog

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UrlLogID	int	True	True	0	0	0		
False	UrlTrackingID	int	True	False	0	0	0		
False	ClickDate	datetime	True	False	0	23	3		
False	UserID	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK.UrlLog	Public	UrlLogID		

## UrlTracking

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UrlTrackingID	int	True	True	0	0	0		
False	PortalID	int	False	True	0	0	0		
False	Url	nvarchar	True	True	255	0	0		
False	UrlType	char	True	False	1	0	0		
False	Clicks	int	True	False	0	0	0		
False	LastClick	datetime	False	False	0	23	3		
False	CreatedDate	datetime	True	False	0	23	3		
False	LogActivity	bit	True	False	0	1	0		
False	TrackClicks	bit	True	False	0	1	0	(1)	
False	ModuleId	int	False	True	0	0	0		
False	NewWindow	bit	True	False	0	1	0	(0)	

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_UrlTracking	Public	UrlTrackingID		
IX_UrlTracking	Public	PortalID Url ModuleId		

**Urls**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UrlID	int	True	True	0	0	0		
False	PortalID	int	False	True	0	0	0		
False	Url	nvarchar	True	True	255	0	0		

Constraints

Name	Type	Columns	Initial Code	Notes
PK_Urls	Public	UrlID		
IX_Urls	Public	Url PortalID		

## UserAuthentication

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserAuthenticatio nID	int	True	True	0	0	0		
False	UserID	int	True	False	0	0	0		
False	AuthenticationTyp e	nvarchar	True	False	100	0	0		
False	AuthenticationTok en	nvarchar	True	False	100	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserAuthentication	Public	UserAuthenticationID		
IX_UserAuthentication	Public	UserID AuthenticationType		

## UserDefinedData

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	UserDefinedFieldId	int	True	True	0	0	0		
True	UserDefinedRowId	int	True	True	0	0	0		
False	FieldValue	ntext	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserDefinedData	Public	UserDefinedFieldId UserDefinedRowId		

Name	Type	Columns	Initial Code	Notes

## UserDefinedFields

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserDefinedFieldId	int	True	True	0	0	0		
False	ModuleId	int	True	False	0	0	0		
False	FieldTitle	nvarchar	False	False	50	0	0		
False	Visible	bit	True	False	0	1	0		
False	FieldOrder	int	True	False	0	0	0	(0)	
False	FieldType	varchar	True	False	20	0	0		
False	Required	bit	True	False	0	1	0	(0)	
False	Default	nvarchar	True	False	200 0	0	0	("")	
False	ExtendedSettings	nvarchar	True	False	200 0	0	0	("")	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserDefinedTable	Public	UserDefinedFieldId		
IX_UserDefinedFields	Public	ModuleId		

Name	Type	Columns	Initial Code	Notes
		FieldOrder		

## UserDefinedRows

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserDefinedRowId	int	True	True	0	0	0		
False	ModuleId	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserDefinedRows	Public	UserDefinedRowId		
IX_UserDefinedRows	Public	ModuleId		

## UserPortals

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not	Unique	Len	Pre	Scale	Init	Notes

			<b>Null</b>			<b>c</b>			
True	UserId	int	True	True	0	0	0		
True	PortalId	int	True	True	0	0	0		
False	UserPortalId	int	True	False	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3	(getdate())	
False	Authorised	bit	True	False	0	1	0	(1)	

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserPortals	Public	UserId PortalId		
IX_UserPortals	Public	PortalId		
IX_UserPortals_1	Public	UserId		

## UserProfile

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ProfileID	int	True	True	0	0	0		
False	UserID	int	True	False	0	0	0		
False	PropertyDefinition	int	True	False	0	0	0		

	ID									
False	PropertyValue	nvarchar	False	False	375 0	0	0			
False	PropertyText	ntext	False	False	0	0	0			
False	Visibility	int	True	False	0	0	0	(0)		
False	LastUpdatedDate	datetime	True	False	0	23	3			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserProfile	Public	ProfileID		
IX_UserProfile	Public	UserID		

## UserRoles

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	UserRoleID	int	True	True	0	0	0		
False	UserID	int	True	False	0	0	0		
False	RoleID	int	True	False	0	0	0		
False	ExpiryDate	datetime	False	False	0	23	3		
False	IsTrialUsed	bit	False	False	0	1	0		
False	EffectiveDate	datetime	False	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserRoles	Public	UserRoleID		
IX_UserRoles	Public	RoleID		
IX_UserRoles_1	Public	UserID		

## Users

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserID	int	True	True	0	0	0		
False	Username	nvarchar	True	True	100	0	0		
False	FirstName	nvarchar	True	False	50	0	0		
False	LastName	nvarchar	True	False	50	0	0		
False	IsSuperUser	bit	True	False	0	1	0	(0)	
False	AffiliateId	int	False	False	0	0	0		
False	Email	nvarchar	False	False	256	0	0		
False	DisplayName	nvarchar	True	False	128	0	0	("")	
False	UpdatePassword	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes

Name	Type	Columns	Initial Code	Notes
PK_Users	Public	UserID		
IX_Users	Public	Username		

#### Relationships

Columns	Association	Notes
(userID = UserID)	<p><b>0..*</b></p> <p>EORS_Event__Debris.FK_EORS_Event</p> <p>  ____Debris(userID)</p> <p><b>1</b></p> <p>Users.PK_Users</p>	

## UsersOnline

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	UserID	int	True	True	0	0	0		
True	PortalID	int	True	True	0	0	0		
False	TabID	int	True	False	0	0	0		
False	CreationDate	datetime	True	False	0	23	3	(getda te())	
False	LastActiveDate	datetime	True	False	0	23	3	(getda te())	

#### Constraints

Name	Type	Columns	Initial Code	Notes

Name	Type	Columns	Initial Code	Notes
PK_UsersOnline	Public	UserID PortalID		

## VendorClassification

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	VendorClassificationId	int	True	True	0	0	0		
False	VendorId	int	True	True	0	0	0		
False	ClassificationId	int	True	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_VendorClassification	Public	VendorClassificationId		
IX_VendorClassification	Public	VendorId ClassificationId		
IX_VendorClassification_1	Public	ClassificationId		

## Vendors

Database: SQL Server 2008, Stereotype: «table», Package: Model

*Detail:*

*Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	VendorId	int	True	True	0	0	0		
False	VendorName	nvarchar	True	True	50	0	0		
False	Street	nvarchar	False	False	50	0	0		
False	City	nvarchar	False	False	50	0	0		
False	Region	nvarchar	False	False	50	0	0		
False	Country	nvarchar	False	False	50	0	0		
False	PostalCode	nvarchar	False	False	50	0	0		
False	Telephone	nvarchar	False	False	50	0	0		
False	PortalId	int	False	True	0	0	0		
False	Fax	nvarchar	False	False	50	0	0		
False	Email	nvarchar	False	False	50	0	0		
False	Website	nvarchar	False	False	100	0	0		
False	ClickThroughs	int	True	False	0	0	0	(0)	
False	Views	int	True	False	0	0	0	(0)	
False	CreatedByUser	nvarchar	False	False	100	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	LogoFile	nvarchar	False	False	100	0	0		
False	KeyWords	ntext	False	False	0	0	0		
False	Unit	nvarchar	False	False	50	0	0		
False	Authorized	bit	True	False	0	1	0	(1)	
False	FirstName	nvarchar	False	False	50	0	0		

False	LastName	nvarchar	False	False	50	0	0			
False	Cell	varchar	False	False	50	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Vendor	Public	VendorId		
IX_Vendors	Public	PortalId VendorName		

## Version

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	VersionId	int	True	True	0	0	0		
False	Major	int	True	True	0	0	0		
False	Minor	int	True	True	0	0	0		
False	Build	int	True	True	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Version	Public	VersionId		

Name	Type	Columns	Initial Code	Notes
IX_Version	Public	Major Minor Build		

## aspnet\_Applications

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	ApplicationName	nvarchar	True	True	256	0	0		
False	LoweredApplicationName	nvarchar	True	True	256	0	0		
True	ApplicationId	uniqueidentifer	True	True	0	0	0	(newid())	
False	Description	nvarchar	False	False	256	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK__aspnet_Applicati__3 3F4B129	Public	ApplicationId		
UQ__aspnet_Applicati__3 4E8D562	Public	LoweredApplicationName		
UQ__aspnet_Applicati__3 5DCF99B	Public	ApplicationName		

Name	Type	Columns	Initial Code	Notes
aspnet_Applications_Index	Public	LoweredApplicationName		

## aspnet\_Membership

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	ApplicationId	uniqueidentifier	True	False	0	0	0		
True	UserId	uniqueidentifier	True	True	0	0	0		
False	Password	nvarchar	True	False	128	0	0		
False	PasswordFormat	int	True	False	0	0	0	(0)	
False	PasswordSalt	nvarchar	True	False	128	0	0		
False	MobilePIN	nvarchar	False	False	16	0	0		
False	Email	nvarchar	False	False	256	0	0		
False	LoweredEmail	nvarchar	False	False	256	0	0		
False	PasswordQuestion	nvarchar	False	False	256	0	0		
False	PasswordAnswer	nvarchar	False	False	128	0	0		
False	IsApproved	bit	True	False	0	1	0		
False	IsLockedOut	bit	True	False	0	1	0		
False	CreateDate	datetime	True	False	0	23	3		
False	LastLoginDate	datetime	True	False	0	23	3		

False	LastPasswordChangedDate	datetime	True	False	0	23	3			
False	LastLockoutDate	datetime	True	False	0	23	3			
False	FailedPasswordAttemptCount	int	True	False	0	0	0			
False	FailedPasswordAttemptWindowStart	datetime	True	False	0	23	3			
False	FailedPasswordAnswerAttemptCount	int	True	False	0	0	0			
False	FailedPasswordAnswerAttemptWindowStart	datetime	True	False	0	23	3			
False	Comment	ntext	False	False	0	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_aspnet_Membership_48EFCE0F	Public	UserId		
aspnet_Membership_index	Public	ApplicationId LoweredEmail		

## aspnet\_Profile

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	UserId	uniqueid	True	True	0	0	0		

		entifier							
False	PropertyNames	ntext	True	False	0	0	0		
False	PropertyValuesString	ntext	True	False	0	0	0		
False	PropertyValuesBinary	image	True	False	0	0	0		
False	LastUpdatedDate	datetime	True	False	0	23	3		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_aspnet_Profile_5DE AEAF5	Public	UserId		

## aspnet\_Roles

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	ApplicationId	uniqueid entifier	True	False	0	0	0		
True	RoleId	uniqueid entifier	True	True	0	0	0	(newid())	
False	RoleName	nvarchar	True	False	256	0	0		
False	LoweredRoleName	nvarchar	True	False	256	0	0		
False	Description	nvarchar	False	False	256	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_aspnet_Roles_6774 552F	Public	RoleId		
aspnet_Roles_index1	Public	ApplicationId LoweredRoleName		

## aspnet\_SchemaVersions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	Feature	nvarchar	True	True	128	0	0		
True	CompatibleSchemaVersion	nvarchar	True	True	128	0	0		
False	IsCurrentVersion	bit	True	False	0	1	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_aspnet_SchemaVer_ _3E723F9C	Public	Feature CompatibleSchemaVersion		

## aspnet\_Users

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	ApplicationId	uniqueidentifier	True	False	0	0	0		
True	UserId	uniqueidentifier	True	True	0	0	0	(newid())	
False	UserName	nvarchar	True	False	256	0	0		
False	LoweredUserName	nvarchar	True	False	256	0	0		
False	MobileAlias	nvarchar	False	False	16	0	0	(null)	
False	IsAnonymous	bit	True	False	0	1	0	(0)	
False	LastActivityDate	datetime	True	False	0	23	3		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_aspnet_Users_38B96646	Public	UserId		
aspnet_Users_Index	Public	ApplicationId LoweredUserName		
aspnet_Users_Index2	Public	ApplicationId LastActivityDate		

## aspnet\_UsersInRoles

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 6/14/2016.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	UserId	uniqueid entifier	True	True	0	0	0		
True	RoleId	uniqueid entifier	True	True	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK__aspnet_UsersInRo__ 6B44E613	Public	UserId RoleId		
aspnet_UsersInRoles_inde x	Public	RoleId		

## grmRepositoryAttributeValues

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	AttributeID	int	False	False	0	0	0		
False	ValueName	nvarchar	False	False	50	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryAttributeValues	Public	ItemID		
IX_grmRepositoryAttributeValues	Public	AttributeID		

## grmRepositoryAttributes

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail*: *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes*:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	AttributeName	nvarchar	False	False	50	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryAttributes	Public	ItemID		
IX_grmRepositoryAttributes	Public	ModuleID		

## grmRepositoryCategories

Database: SQL Server 2008, *Stereotype*: «table», *Package*: Model

*Detail*: *Created on* 2/18/2015. *Last modified on* 6/14/2016.

*Notes*:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ItemId	int	True	True	0	0	0		
False	ModuleId	int	False	False	0	0	0		
False	Category	nvarchar	True	False	100	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	Parent	int	False	False	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryCategories	Public	ItemId		
IX_grmRepositoryCategories	Public	ModuleId		

**grmRepositoryComments**

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail:

Created on 2/18/2015. Last modified on 6/14/2016.

Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ObjectID	int	True	False	0	0	0		
False	CreatedByUser	nvarchar	False	False	100	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	Comment	ntext	False	False	0	0	0		

Constraints

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryComments	Public	ItemID		
IX_grmRepositoryComments	Public	ObjectID		

## grmRepositoryObjectCategories

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
False	ItemID	int	True	False	0	0	0		
False	ObjectID	int	False	False	0	0	0		
False	CategoryID	int	False	False	0	0	0		

## grmRepositoryObjectValues

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* *Created on 2/18/2015. Last modified on 6/14/2016.*

*Notes:*

Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ObjectID	int	False	False	0	0	0		
False	ValueID	int	False	False	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryObject Values	Public	ItemID		
IX_grmRepositoryObject Values	Public	ObjectID		

**grmRepositoryObjects**Database: SQL Server 2008, *Stereotype*: «table», *Package*: ModelDetail: *Created on 2/18/2015. Last modified on 6/14/2016.*

Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scale	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	False	False	0	0	0		
False	CreatedByUser	nvarchar	False	False	150	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	UpdatedByUser	nvarchar	False	False	150	0	0		
False	UpdatedDate	datetime	False	False	0	23	3		
False	Name	nvarchar	False	False	150	0	0		
False	Author	nvarchar	False	False	150	0	0		
False	AuthorEmail	nvarchar	False	False	150	0	0		
False	FileSize	nvarchar	False	False	12	0	0		
False	Downloads	int	False	False	0	0	0		
False	PreviewImage	nvarchar	False	False	150	0	0		
False	Image	nvarchar	False	False	150	0	0		

False	FileName	nvarchar	False	False	150	0	0			
False	Clicks	int	False	False	0	0	0			
False	RatingVotes	bigint	False	False	0	19	0			
False	RatingTotal	bigint	False	False	0	19	0			
False	RatingAverage	float	False	False	0	53	0			
False	Approved	int	False	False	0	0	0			
False	ShowEMail	int	False	False	0	0	0			
False	Summary	ntext	False	False	0	0	0			
False	Description	ntext	False	False	0	0	0			

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryObjects	Public	ItemID		
IX_grmRepositoryObjects	Public	ModuleID		

## C RELEASE HISTORY

CHART systems have been evolving over a long period of time. The EORS application began as a subset of the original Emergency Operations Reporting System (EORS) application now referred to as Legacy EORS. The Legacy EORS Road Closures module was later given a technology upgrade and ported into a new free standing application now referred to as LCP. A summary description of the system capabilities for each of the EORS releases is presented in the following sections.

### C.1 EORS ER3B1

Following is a summary of the major features provided by EORS ER3B1:

- Event Reporting. The ER3B1 release will address CHART's need to implement a new Event Reporting module that provides users with the ability to enter report data pertaining to transportation related events. This module will replace the existing Start/Update Storm legacy system and will include enhancements to functionality such as the ability to track personnel, equipment, materials, operational activities, road conditions and RWIS data for multiple, concurrent events for Winter and Non-Winter operations. The following two modules will be ported and modified from the legacy system to support the Events Reporting module:
  - Shop Rates
  - Materials Usage Tracking
- Shop RWIS Manager. The ER3B1 release will integrate RWIS device data into the shop reports. The Shop RWIS Manager module will provide a configuration interface that allows users to assign primary and secondary RWIS devices to shops for data collection.
- Event Storm Mapping, formerly Winter Storm Mapping. Under a previous effort the CHART staff produced a set of requirements aimed at replacing the existing Winter Storm Mapping system. Those requirements will be updated as part of this effort.
- Reporting Updates. Several EORS reports are dependent upon the legacy design of the Event Reporting system. This release will produce a list of reports that need to be updated to support the new Event Reporting functionality as well as the changes required to each report. In addition, this release will implement a new reporting system to deliver the web-based reports.
- Document Repository. The ER3B1 build will deploy the prebuilt Document Repository module already included as part of the application framework.
- Down Equipment Tracking. The Down Equipment Tracking module will provide the ability to track and report on the availability of state owned equipment by shop.
- Event Reporting Reminder. The ER3B1 build will provide an email based reporting reminder system.

